Communication Protocol Interface Guide

Patient Monitor and Life Support Products

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1 Overview

1.1 Introduction

This guide is intended to be used by software developers and/or systems integrators that wish to communicate with Mindray patient monitor and life support (PMLS) devices. The PMLS Systems can communicate results and alerts data to other systems such as clinical IT systems. This is done using an HL7 based protocol based on the Integrating the Healthcare Enterprise (IHE) Patient Care Devices (PCD) Device to Enterprise Communication (DEC) profile. This document provides specifics on how the PMLS devices implement this profile.

Table 1 Software bundle version compatible with the version of current document

Product Series	Device Type	Version
N-Series Patient Monitor	N22, N19	
	N17, N15, N12	

1.2 References

- HL7 V2.6
- IHE PCD Technical Framework Volume 1
- IHE PCD Technical Framework Volume 2
- IHE ITI Technical Framework Volume 1
- IHE ITI Technical Framework Volume 2
- IHE PCD Rosetta Terminology Profile
- ISO/IEEE 11073-10101 and 11073-10101a Nomenclature

2 Message Frame

MLLP is the Minimal Lower Layer Protocol which is used by HL7 for delimiting the start and end of a message.And there are two kinds of message frame.

2.1 Ethernet frame

- The Ethernet protocol has a built in CRC check so that each message does not need any application level checking for transmission errors.
- The frame of an MLLP message for Ethernet is:

  <SB> + <Message> + <EB> + <CR>

Where:

<SB> = Start Block (0x0B (VT))

<Message> = IHE-PCD compliant HL7 Message

<EB> = End Block (0x1C (FS))

<CR> = Carriage Return (0x0D (CR))

- A typical message will look like:

SB	NETWORK EXPORT MESSAGE (IHE-PCD HL7)	EB	CR

2.2 RS-232 frame

- The frame of an MLLP message for RS-232 is:

  <SB> + <Message> + <CRC> + <EB> + <CR>

Where:

<SB> = Start Block (0x0B (VT))

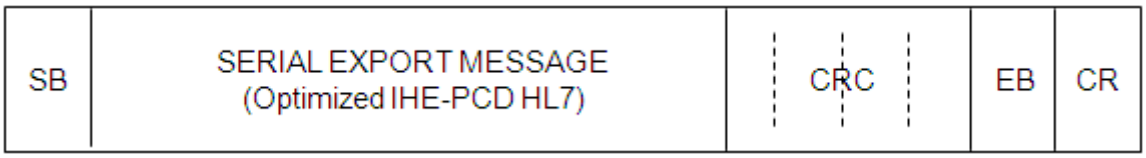
<Message> = Optimized IHE-PCD HL7 Message

<EB> = End Block (0x1C (FS))

<CR> = Carriage return (0x0D (CR))

<CRC> = 16 bit CRC in 4 ASCII characters (see Appendix).

- A 16-bit CRC checksum of the message content (not including the MLLP framing information (SB, EB, and CR)) is appended at the end of any message. For more information refer to Appendix.
- A typical message will look like:



- RS-232 frame is only supported by A Series - Anesthesia machine.

3 Export Protocol

3.1 Message Details: Observation and Waveform Data

This message is made up of a number of segments as follows:

- MSH Segment - Message Header
- PID Segment - Patient Identifier
- PV1 Segment - Patient Visit
- Observation Block OBR Segment - Observation Request
- Observation Block OBX Segment - Observation Results
- Waveform Block OBR Segment - Observation Request
- Waveform Block OBX Segment - Observation Results

Table 2 Data Message Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
{	--- PATIENT RESULT begin	R	[1..1]
[	--- PATIENT begin		
PID	Patient Identification	R	[1..1]
[	--- VISIT begin		
PV1	Patient Visit	R	[1..1]
]	--- VISIT end		
]	--- PATIENT end		
{	--- ORDER_OBSERVATION begin	R	[1..1]
OBR	Observation Request	R	[0..1]
{	--- OBSERVATION begin	R	[1..N]
OBX	Observation Result	R	[1..1]
}	--- OBSERVATION end		
OBR	Wave Observation Request	R	[0..1]
{	--- WAVE OBSERVATION begin	R	[1..N]
OBX	Waveform Observation Result	R	[1..1]
}	--- WAVE OBSERVATION end		
}	--- ORDER_OBSERVATION end		
}	--- PATIENT RESULT end		

3.1.1 MSH Segment

The MSH segment defines the intent, source, destination, and some specifics of the syntax of a message.

MSH Segment definition:

Field	Name	Mindray Usage	
MSH-1	Field Separator	R	“|”
MSH-2	Encoding Characters	R	“^~\&”
MSH-3	Sending Application	R	
MSH-3.1	Namespace ID	R	See Table 3 for values
MSH-3.2	Universal ID	R	“00A037” + 4 digit MR device ID + last six digits of serial number in Hex See Table 3 MR device ID values
MSH-3.3	Universal ID Type	R	“EUI-64”
MSH-4	Sending Facility	RE	Facility entered on the device
MSH-5	Receiving Application	X	EMPTY
MSH-6	Receiving Facility	X	EMPTY
MSH-7	Date/Time of Message	R	YYYY[MM[DD[HH[MM[SS]]]]] [+/-ZZZZ]
MSH-9	Message Type	R	
MSH-9.1	Message Code	R	”ORU”
MSH-9.2	Trigger Event	R	”R01”
MSH-9.3	Message Structure	R	”ORU_R01”
MSH-10	Message Control Id	R	An integer that is unique to each message.
MSH-11	Processing Id	R	
MSH-11.1	Processing ID	R	“P”
MSH-11.2	Processing Mode	X	EMPTY
MSH-12	Version ID	R	“2.6”
MSH-13	Sequence Number	X	EMPTY
MSH-14	Continuation Pointer	X	EMPTY
MSH-15	Accept Acknowledgment Type	R	“AL”
MSH-16	Application Acknowledgment Type	R	“NE”
MSH-17	Country Code	X	EMPTY
MSH-18	Character Set	RE	“UNICODE UTF-8”
MSH-19	Principal Language Of Message	X	EMPTY

Field	Name	Mindray Usage	
MSH-20	Alternate Character Set Handling Scheme	X	EMPTY
MSH-21	Message Profile Identifier	R	
MSH-21.1	Entity Identifier	R	“IHE_PCD_001”
MSH-21.2	Namespace ID	RE	“IHE PCD”
MSH-21.3	Universal ID	RE	“1.3.6.1.4.1.19376.1.6.1.1.1“
MSH-21.4	Universal ID Type	RE	”ISO”

Note: Fields that are not used are omitted for brevity.

Table 3 MSH-3 Sending Application Components

Device	4 Digit MR device ID	MSH-3.1
N-Series	009B	N-SERIES

3.1.2 PID Segment

The PID segment is used as the primary means of communicating patient identification information. This segment contains permanent patient identifying and demographic information that, for the most part, is not likely to change frequently.

PID Segment Definition:

Field	Name	Mindray Usage	
PID-3	Patient Identifier List	R	
PID-3.1	ID Number	R	Patient ID entered
PID-3.4	Assigning Authority	R	Facility entered
PID-3.5	Identifier Type Code	R	“PI”
PID-3.6	Assigning Facility	X	EMPTY
PID-5	Patient Name	O	
PID-5.1	Family Name	O	Last Name entered on the device
PID-5.2	Given Name	O	First Name entered on the device
PID-5.3	Second and Further Given Names	X	EMPTY
PID-5.4	Suffix	X	EMPTY
PID-5.5	Prefix	X	EMPTY
PID-5.7	Name Type Code	R	“L”

Field	Name	Mindray Usage	
PID-5.8	Name Representation Code	X	EMPTY
PID-6	Mother's Maiden Name	X	EMPTY
PID-7	Date/Time of Birth	RE	DOB entered on the device (YYYY[MM[DD]])
PID-8	Administrative Sex	RE	See Table 4 below
PID-9	Patient Alias	X	EMPTY
PID-10	Race	RE	See Tabel 5 below

Table 4 Administrative Sex Value

Value	Gender
<blank>	Unspecified
M	Male
F	Female
U	Unknown

Table 5 Race

Value	Description	Comment
2028-9	Asian	
2054-5	Black or African American	
2106-3	White	
2131-1	Other Race	
Unknown	Not set	

Note: Fields that are not used are omitted for brevity.

3.1.3 PV1 Segment

The PV1 segment is used to communicate information on an account or visit-specific basis.

PV1 Segment Definition:

Field	Name	Mindray Usage

Field	Name	Mindray Usage	
PV1-2	Patient Class	R	“I”
PV1-3	Assigned Location	RE	
PV1-3.1	Point of Care	RE	Point of Care entered on the device
PV1-3.2	Room	RE	Room entered on the device
PV1-3.3	Bed	RE	Bed entered on the device
PV1-3.4	Facility	RE	Facility entered on the device
PV1-7	Attending Doctor	RE	
PV1-7.1	ID Number	RE	ID Number of Attending Doctor entered on the device
PV1-7.2	Family Name	RE	Family Name of Attending Doctor entered on the device
PV1-7.3	Given Name	RE	Given Name of Attending Doctor entered on the device
PV1-7.4	Second and Further Given Names	RE	Middle Name of Attending Doctor entered on the device
PV1-44	Admit Date/Time	RE	patient’s hospital admit time entered on the device

Note: Fields that are not used are omitted for brevity.

3.1.4 Observation Block OBR Segment

- The OBR segment is used to transmit a date and time of the OBX segments which follow.
- OBR Segment Definition:

Field	Name	Mindray Usage	
OBR-1	Set ID OBR	R	An integer that is incremented for each OBR in the message.
OBR-2	Placer Order Number	R	
OBR-2.1	Entity identifier	R	Same as MSH-10
OBR-2.2	Namespace ID	R	Same as MSH-3.1
OBR-2.3	Universal ID	R	Same as MSH-3.2
OBR-2.4	Universal ID Type	R	”EUI-64”
OBR-3	Filler Order Number	R	
OBR-3.1	Entity identifier	R	Same as OBR-2.1
OBR-3.2	Namespace ID	R	Same as OBR-2.2
OBR-3.3	Universal ID	R	Same as OBR-2.3
OBR-3.4	Universal ID Type	R	”EUI-64”
OBR-4	Universal Service Identifier	R	
OBR-4.1	Identifier	R	“182777000”
OBR-4.2	Text	R	“monitoring of patient”

Field	Name	Mindray Usage	
OBR-4.3	Naming of Coding System	RE	“SCT”
OBR-7	Observation Date/Time	RE	YYYY[MM[DD[HH[MM[SS]]]]] [+/-ZZZZ]

Note: Fields that are not used are omitted for brevity.

3.1.5 Observation Block OBX Segment

- The OBX segment is used to transmit a single observation or observation fragment. It represents the smallest indivisible unit of a report.
- OBX Segment Definition:

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	CE	“SN”, “NM”, or “CWE”
OBX-3	Observation Identifier	R	
OBX-3.1	Identifier	R	Nomenclature Code
OBX-3.2	Text	R	Reference ID
OBX-3.3	Name of Coding System	R	“MDC” or “99MNDRY”
OBX-3.4	Alternate Identifier	X	EMPTY
OBX-3.5	Alternate Text	X	EMPTY
OBX-3.6	Name of Alternate Coding System	X	EMPTY
OBX-4	Observation Sub-ID	R	Refer to Appendix
OBX-5	Observation Value	CE	Correct Value
OBX-6	Units	CE	See Table 14 for values
OBX-7	Reference Range	X	EMPTY
OBX-8	Abnormal Flags	CE	”INV” if invalid “DEMO” if demo data
OBX-11	Observation Result Status	R	“R” or “F” or “X”
OBX-14	Date/Time of the Observation	RE	YYYY[MM[DD[HH[MM[SS]]]]] [+/-ZZZZ] If empty, the time of the observatio is the time in the OBR-7 field.
OBX-17	Observation Method	RE	
OBX-17.2		RE	This field shall be contain the “APERIODIC” for observations that are aperiodic. Some examples of aperiodic data are NIBP, CO, PAWP, and a spot check temperature.
OBX-18	Equipment Instance Identifier	RE	This field is only populated for the first OBX in the OBR block.
OBX-18.1		R	The EUI-64 value. See MSH-3.2 for how this value is defined.

Field	Name	Mindray Usage	
OBX-18.2		X	EMPTY
OBX-18.3		R	The EUI-64 value. See MSH-3.2 for how this value is defined.
OBX-18.4		R	"EUI-64"
OBX-19	Data/Time of Analysis	CR	EMPTY
OBX-20	Observation Site	RE	Observation site of a value

Note: Fields that are not used are omitted for brevity.

Please Note:

The OBX-11 field will be filled in with 'R' for unconfirmed observations. These are observations that are machine measured and not confirmed by a clinician. Values confirmed by a clinician will be filled in with an 'F'. An example of this would be weight since it is entered by the clinician. When sending an invalid value, the A Series will set the OBX-2 "Observation Type" and OBX-5 "Observation Value" blank, OBX-8 to "INV", and OBX-11 to "X".

OBX-2 can be set to NM, SN (for I: E) or CWE.

- NM is used for most observations including measurements and settings.

- CWE is used for Vent Mode, and System Status where OBX-5 is not a simple number but an expression, for example “50013^MNDRY_MODE_PCV_PLUS_VG^MNDRY99”.

- SN (“Structured Numeric” data type) is used to send the I:E ratio data, which means sending both the ‘I’ and the ‘E’ in one OBX segment. For example a ratio of 1:2 would be sent as: OBX|464|**SN**|20000^MDC_RATIO_IE_SETTING^99MNDRY|1.3.2.20000|**^1^:^2**|262656^MDC_DIM_DIMLESS^MDC|||||F|||20120101000721-0500|

3.1.6 Waveform Block OBR Segment

The Waveform Block OBR segment is used to transmit a date and time of the Waveform Block OBX segments which follow.

Waveform Block OBR Segment Definition:

Field	Name	Mindray Usage	
OBR-1	Set ID OBR	R	An integer that is incremented for each OBR in the message.
OBR-2	Placer Order Number	C	EMPTY

Field	Name	Mindray Usage	
OBR-3	Filler Order Number	R	
OBR-3.1	Entity identifier	R	Same as MSH-10
OBR-3.2	Namespace ID	R	Same as MSH-3.1
OBR-3.3	Universal ID	R	Same as MSH-3.2
OBR-3.4	Universal ID Type	R	”EUI-64”
OBR-4	Universal Service Identifier	R	“CONTINUOUS WAVEFORM”
OBR-7	Observation Date/Time Start Time	R	YYYY[MM[DD[HH[MM[SSmmm]]]]] [+/-ZZZZ]
OBR-8	Observation Date/Time End Time	R	YYYY[MM[DD[HH[MM[SSmmm]]]]] [+/-ZZZZ]

3.1.7 Waveform Block OBX Segment

3.1.7.1 Notes on the OBX-4 Sub-ID

OBX-4 for the waveform data OBX segment follows the standard IHE format of M.V.C.I, where M = System, V = Virtual Device, V = Channel, I = Metric. I is set to the OBX-3.1 value for the parameter. The following OBXs in the message that contain specifications for the waveform data follow the format of M.V.C.I.F, where F is an incrementing integer for each new OBX. The M.V.C.I component is identical to the value in the waveform data OBX. This allows the specifications to be associated with the waveform data OBX.

3.1.7.2 Waveform OBX segment, Waveform Data

This OBX specifies the data samples for the waveform.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“NA”
OBX-3	Observation Identifier	R	The code for the waveform.
OBX-4	Observation Sub-ID	R	The containment value. See section 3.1.7.1 for details.
OBX-5	Observation Value	R	Correct Value
OBX-6	Units	R	“262656^MDC_DIM_DIMLESS^MDC”

3.1.7.3 Waveform OBX segment, Waveform Sample Rate

This OBX specifies the sample rate for the waveform.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“NM”

Field	Name	Mindray Usage	
OBX-3	Observation Identifier	R	“0^MDC_ATTR_SAMP_RATE^MDC”
OBX-4	Observation Sub-ID	R	The containment value. See section 3.1.7.1 for details.
OBX-5	Observation Value	R	The sample rate of the waveform
OBX-6	Units	R	“264608^MDC_DIM_PER_SEC^MDC”

3.1.7.4 Waveform OBX segment, Waveform Resolution

This OBX specifies the resolution for the waveform.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“NM”
OBX-3	Observation Identifier	R	“2327^MDC_ATTR_NU_MSMT_RES^MDC”
OBX-4	Observation Sub-ID	R	The containment value. See section 3.1.7.1 for details.
OBX-5	Observation Value	R	The data resolution
OBX-6	Units	R	The units of measure for the waveform data. See Table 14 for values.

The value of the waveform sample is multiplied by the data resolution (OBX-5) to compute the waveform value in the units specified (OBX-6).

3.1.7.5 Waveform OBX segment, Invalid Value

This OBX specifies the value in the waveform data that indicates an invalid value. This segment is optional if the waveform does not contain an invalid value.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“NM”
OBX-3	Observation Identifier	R	“262196^MDC_EVT_INOP^MDC”
OBX-4	Observation Sub-ID	R	The containment value. See section 3.1.7.1 for details.
OBX-5	Observation Value	R	The waveform data sample value that flags an invalid value in the waveform data.

3.1.7.6 Waveform OBX segment, Event

This OBX specifies an event in the waveform data. This segment is optional if the waveform segment does not contain any events. Multiple events can be sent within a single waveform segment.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1

Field	Name	Mindray Usage	
OBX-2	Value Type	R	“CWE”
OBX-3	Observation Identifier	R	“0^MDC_ATTR_EVENT^MDC”
OBX-4	Observation Sub-ID	R	The containment value. See section 3.1.7.1 for details.
OBX-5	Observation Value	R	The code representing the event type.
OBX-14	Observation Date/Time	RE	YYYY[MM[DD[HH[MM[SSmmm]]]]] [+/-ZZZZ]

3.2 Message Details: Alert Data

The Alert message is used to transmit alert information from the PMLS devices.

Table 5 Alert Message Structure

Segment	Meaning	Usage	Cardinality
MSH	Message Header	R	[1..1]
{	--- ALERT_begin	R	[1..1]
[	--- PATIENT begin		
PID	Patient Identification	R	[1..1]
[	--- LOCATION begin		
PV1	Alert Location	R	[1..1]
]	--- LOCATION end		
]	--- PATIENT end		
{	--- ALERT_IDENTIFICATION begin		[1..1]
OBR	Alert Identification	R	[1..1]
{	--- ALERT_OBSERVATION begin	R	[1..7]
OBX	Alert specification	R	[1..1]
}	--- ALERT OBSERVATION end		
}	--- ALERT_IDENTIFICATION end		
}	--- ALERT end		

3.2.1 MSH Segment

Unless otherwise specified this message follows the Mindray’s common MSH segment definition defined in the 3.1.1 MSH Segment.

3.2.1.1 MSH-9 Message Type

MSH-9 will be populated with “ORU^R40^ORU_R40” in an Alert Message.

3.2.1.2 MSH-21 Message Profile Identifier

MSH-21 will be populated with “IHE_PCD_ACM_001^IHE PCD^1.3.6.1.4.1.19376.1.6.1.4.1^ISO” in an Alert Message.

3.2.2 PID Segment

This message follows the Mindray's common PID segment definition defined in 3.1.2.

3.2.3 PV1 Segment

This message follows the Mindray's common PV1 segment definition defined in 3.1.3 with the following exceptions: PV1-2 shall be empty.

3.2.4 Alert OBR Segment

The Alert Data Block OBR segment is used to transmit a date and time of the Alert OBR Block OBX segments which follow.

Alert OBR Segment Definition:

Field	Name	Mindray Usage	
OBR-1	Set ID OBR	R	An integer that is incremented for each OBR in the message.
OBR-2	Placer Order Number	X	EMPTY
OBR-3	Filler Order Number	R	
OBR-3.1	Entity identifier	R	Same as MSH-10
OBR-3.2	Namespace ID	R	Same as MSH-3.1
OBR-3.3	Universal ID	R	Same as MSH-3.2
OBR-3.4	Universal ID Type	R	Same as MSH-3.3
OBR-4	Universal Service Identifier	R	"196616^MDC_EVT_ALARM^MDC"
OBR-7	Observation Date/Time	RE	The time that the alert message was prepared to be sent. (YYYY[MM[DD[HH[MM[SS]]]]] [+/-ZZZZ])
OBR-29	Parent	R	
OBR-29.2.1	Entity identifier	R	A unique integer ID for the alert. All messages related to the same alert will have the same unique ID.
OBR-29.2.2	Namespace ID	R	Same as MSH-3.1
OBR-29.2.3	Universal ID	R	Same as MSH-3.2
OBR-29.2.4	Universal ID Type	R	Same as MSH-3.3

3.2.5 Alert OBX Segment

3.2.5.1 Alert OBX segment, Facet 1 Event Identification

This OBX specifies the alert event type.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“CWE”
OBX-3	Observation Identifier	R	“196616^MDC_EVT_ALARM^MDC”
OBX-4	Observation Sub-ID	R	The containment value of the alert appended with “.1”. Refer to Appendix for containment values.
OBX-5	Observation Value	R	See Note 1
OBX-11	Observation Result Status	R	“F”
OBX-14	Observation Date/Time	RE	YYYY[MM[DD[HH[MM[SS]]]]] [+/-ZZZZ]

Note 1:

- OBX-5 shall be populated with values from Appendix for non-threshold alarms.
- OBX-5 shall be populated with “196652^MDC_EVT_HI_VAL_GT_LIM^MDC” for a high threshold alarm.
- OBX-5 shall be populated with “196674^MDC_EVT_LO_VAL_LT_LIM^MDC” for a low threshold alarm

3.2.5.2 Alert OBX segment, Facet 2 Source Identification

This OBX specifies the source of the alert event. It follows two formats based on the type of alarm specified in Facet 1.

Threshold Alarms

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“SN”, “NM”, or “CWE”
OBX-3	Observation Identifier	R	Observation’s ID
OBX-4	Observation Sub-ID	R	The containment value of the alert appended with “.2” Refer to Appendix for containment values.
OBX-5	Observation Value	R	The observation’s value
OBX-6	Units	R	The observation’s units. See Table 14 for values.
OBX-7	Reference Range	O	L-H or <H or >L. See Note 1 below.
OBX-8	Abnormal Flags	O	”INV” if invalid “DEMO” if demo data
OBX-11	Observation Result Status	R	“F” or “X”
OBX-14	Observation Date/Time	R	YYYY[MM[DD[HH[MM[SS]]]]] [+/-ZZZZ]
BX-18	Equipment Instance Identifier	RE	The source devices identifier

Note 1:

OBX-7 shall be populated with the thresholds of the alarm in the following formats.

For a high and Low threshold the format is “L-H” where “L” is the low threshold and “H” is the high threshold. For example for a low limit of 30 and a high limit of 120 the value would be:

```
30-120
```

For only a high limit the format is “<H”, where H is the high limit. For example with only a high limit of 120 the value would be:

```
<120
```

For only a low limit the format is “>L”, where L is the low limit. For example with only a low limit of 30 the value would be:

```
>30
```

Non-Threshold Alerts

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“CWE”
OBX-3	Observation Identifier	R	“68480^MDC_ATTR_ALERT_SOURCE^MDC”
OBX-4	Observation Sub-ID	R	The containment value of the alert appended with “.2” Refer to Appendix for containment values.
OBX-5	Observation Value	R	“70041^MDC_DEV_SYS_ANESTH_MDS^MDC” “69953^MDC_DEV_MON_PT_PHYSIO_MULTI_PARAM_MDS^MDC”
OBX-11	Observation Result Status	R	“F”

3.2.5.3 Alert OBX segment, Facet 3 Event Phase

This OBX specifies the phase of the alert event.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“ST”
OBX-3	Observation Identifier	R	“68481^MDC_ATTR_EVENT_PHASE^MDC”
OBX-4	Observation Sub-ID	R	The containment value of the alert appended with “.3” Refer to Appendix for containment values.
OBX-5	Observation Value	R	See Table 6 below
OBX-11	Observation Result Status	R	“F”

Table 6 Alert Phases

Value	Phase
tpoint	The alert is a time point with no duration. This will be the only event for this alert.
start	The alert started. Transitioned to active.
continue	The message is not a transition, it is just a resend of the current event state
end	The alert has ended. Transitioned from active to inactive or latched.
update	A change other than a state transition in a previously reported alarm, such as a further change in an out-of-limit metric.
escalate	The alert has escalated in priority.
de-escalate	The alert has de-escalated in priority.
reset	The alert was reset. Transitioned from latched to inactive.
inactivation	The inactivation state has changed (audio pause, alarm pause, etc…).

3.2.5.4 Alert OBX segment, Facet 4 Alarm State

This OBX specifies the state of the alert.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“ST”
OBX-3	Observation Identifier	R	“68482^MDC_ATTR_ALARM_STATE^MDC”
OBX-4	Observation Sub-ID	R	The containment value of the alert appended with “.4” Refer to Appendix for containment values.
OBX-5	Observation Value	R	See Table 7 below
OBX-11	Observation Result Status	R	“F”

Table 7 Alert States

Value	State
inactive	The alarm is inactive. The alarm condition does not exist and the alarm system does not have an associated alarm.
active	The alarm is active. The alarm condition exists and the alarm system has an associated active alarm.
latched	The alarm is latched. The alarm condition is gone but the alarm system is keeping the associated alarm active.

3.2.5.5 Alert OBX segment, Facet 5 Inactivation State

This OBX specifies the inactivation state of the of the alerts signals. This segment is optional and will only be sent if the information is available.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“ST”
OBX-3	Observation Identifier	R	“68483^MDC_ATTR_ALARM_INACTIVATION_STATE^MDC”
OBX-4	Observation Sub-ID	R	The containment value of the alert appended with “.5” Refer to Appendix for containment values.
OBX-5	Observation Value	R	See Note 1 below
OBX-11	Observation Result Status	R	“F”

Note 1:

The OBX-5 field can be populated with up to 3 field repetitions. One from each of the tables below.

Table 8 Audio Inactivation States

Value	Alarm Audio State
<blank>	The alarm’s audio and visual indicators are enabled.
audio-paused	The alarm’s audio indicator is temporarily off
audio-off	The alarm’s audio indicator permanently off

Table 9 Visual Inactivation States

Value	Alarm Visual State
<blank>	The alarm’s audio and visual indicators are enabled.
alarm-paused	The alarm’s visual indicator is temporarily off
alarm-off	The alarm’s visual indicator is permanently off

Table 10 Acknowledgement State

Value	Acknowledgement State
<blank>	The alarm has not been acknowledged at the source.
acknowledged	The alarm has been acknowledged at the source.

3.2.5.6 Alert OBX segment, Facet 6 Alarm Priority

This OBX specifies the alarm priority.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“ST”
OBX-3	Observation Identifier	R	“68484^MDC_ATTR_ALARM_PRIORITY^MDC”
OBX-4	Observation Sub-ID	R	The containment value of the alert appended with “.6” Refer to Appendix for

			containment values.
OBX-5	Observation Value	R	See Table 11 below
OBX-11	Observation Result Status	R	“F”

Table 11 Alarm Priority

Value	Alarm Priority
PN	No alarm
PL	Low priority
PM	Medium priority
PH	High priority

Table 12 Facet 6 and 7 Values Based on Alert Type

Alert Type	Facet 6 OBX-5	Facet 7 OBX-5
High Priority Physiological	PH	SP
Medium Priority Physiological	PM	SP
Low Priority Physiological	PL	SP
High Priority Technical	PH	ST
Medium Priority Technical	PM	ST
High Priority Technical	PH	ST
Advisory	PN	SA

3.2.5.7 Alert OBX segment, Facet 7 Alert Type

This OBX specifies the alert type.

Field	Name	Mindray Usage	
OBX-1	Set ID-OBX	R	An integer that is incremented for each OBX in the OBR block, starting at 1
OBX-2	Value Type	R	“ST”
OBX-3	Observation Identifer	R	“68485^MDC_ATTR_ALERT_TYPE^MDC”
OBX-4	Observation Sub-ID	R	The containment value of the alert appended with “.7” Refer to Appendix for containment values.
OBX-5	Observation Value	R	See Table 13 below
OBX-11	Observation Result Status	R	“F”

Table 13 Alarm Type

Value	Alarm Type
SP	Physiological

ST	Technical
SA	Advisory

Appendix A –CRC Calculation

A.1 Overview

As depicted in section 2.1.1.1 the Serial Protocol uses a CRC based on the IETF RFC 1171 for HDLC framing. The CRC is calculated to 16 bits on the HL7 message and does not include the MLLP framing characters. It is inserted towards the end of the Serial export message using 4 ASCII characters in Hex. For example if the CRC is 0x1F2Eh, the CRC is inserted as 1F2E.

A.2 CRC Calculation Guidance

Below is a C++ class for reference that performs the CRC based on the IETF RFC 1171 for HDLC framing. It can easily be converted into a C function if needed.

```
class CRC
{
   private:
      static unsigned short s_CRCTable[256];
      unsigned short m_Value;

   public:
      CRC():m_Value(0){}
      unsigned short GetValue() const { return m_Value;}
      void Reset() {m_Value = 0;}
      void Calculate( const unsigned char* data, size_t length);
};


const unsinged short CRC::s_CRCTable[256] =
{
0x0000, 0x1189, 0x2312, 0x329b, 0x4624, 0x57ad, 0x6536, 0x74bf,
0x8c48, 0x9dc1, 0xaf5a, 0xbed3, 0xca6c, 0xdbe5, 0xe97e, 0xf8f7,
0x1081, 0x0108, 0x3393, 0x221a, 0x56a5, 0x472c, 0x75b7, 0x643e,
0x9cc9, 0x8d40, 0xbfdb, 0xae52, 0xdaed, 0xcb64, 0xf9ff, 0xe876,
0x2102, 0x308b, 0x0210, 0x1399, 0x6726, 0x76af, 0x4434, 0x55bd,
0xad4a, 0xbcc3, 0x8e58, 0x9fd1, 0xeb6e, 0xfae7, 0xc87c, 0xd9f5,
0x3183, 0x200a, 0x1291, 0x0318, 0x77a7, 0x662e, 0x54b5, 0x453c,
0xbdcb, 0xac42, 0x9ed9, 0x8f50, 0xfbef, 0xea66, 0xd8fd, 0xc974,
0x4204, 0x538d, 0x6116, 0x709f, 0x0420, 0x15a9, 0x2732, 0x36bb,
0xce4c, 0xdfc5, 0xed5e, 0xfcd7, 0x8868, 0x99e1, 0xab7a, 0xbaf3,
0x5285, 0x430c, 0x7197, 0x601e, 0x14a1, 0x0528, 0x37b3, 0x263a,
0xdecd, 0xcf44, 0xfddf, 0xec56, 0x98e9, 0x8960, 0xbbfb, 0xaa72,
0x6306, 0x728f, 0x4014, 0x519d, 0x2522, 0x34ab, 0x0630, 0x17b9,
```

```
0xef4e, 0xfec7, 0xcc5c, 0xddd5, 0xa96a, 0xb8e3, 0x8a78, 0x9bf1,
0x7387, 0x620e, 0x5095, 0x411c, 0x35a3, 0x242a, 0x16b1, 0x0738,
0xffcf, 0xee46, 0xdcdd, 0xcd54, 0xb9eb, 0xa862, 0x9af9, 0x8b70,
0x8408, 0x9581, 0xa71a, 0xb693, 0xc22c, 0xd3a5, 0xe13e, 0xf0b7,
0x0840, 0x19c9, 0x2b52, 0x3adb, 0x4e64, 0x5fed, 0x6d76, 0x7cff,
0x9489, 0x8500, 0xb79b, 0xa612, 0xd2ad, 0xc324, 0xf1bf, 0xe036,
0x18c1, 0x0948, 0x3bd3, 0x2a5a, 0x5ee5, 0x4f6c, 0x7df7, 0x6c7e,
0xa50a, 0xb483, 0x8618, 0x9791, 0xe32e, 0xf2a7, 0xc03c, 0xd1b5,
0x2942, 0x38cb, 0x0a50, 0x1bd9, 0x6f66, 0x7eef, 0x4c74, 0x5dfd,
0xb58b, 0xa402, 0x9699, 0x8710, 0xf3af, 0xe226, 0xd0bd, 0xc134,
0x39c3, 0x284a, 0x1ad1, 0x0b58, 0x7fe7, 0x6e6e, 0x5cf5, 0x4d7c,
0xc60c, 0xd785, 0xe51e, 0xf497, 0x8028, 0x91a1, 0xa33a, 0xb2b3,
0x4a44, 0x5bcd, 0x6956, 0x78df, 0x0c60, 0x1de9, 0x2f72, 0x3efb,
0xd68d, 0xc704, 0xf59f, 0xe416, 0x90a9, 0x8120, 0xb3bb, 0xa232,
0x5ac5, 0x4b4c, 0x79d7, 0x685e, 0x1ce1, 0x0d68, 0x3ff3, 0x2e7a,
0xe70e, 0xf687, 0xc41c, 0xd595, 0xa12a, 0xb0a3, 0x8238, 0x93b1,
0x6b46, 0x7acf, 0x4854, 0x59dd, 0x2d62, 0x3ceb, 0x0e70, 0x1ff9,
0xf78f, 0xe606, 0xd49d, 0xc514, 0xb1ab, 0xa022, 0x92b9, 0x8330,
0x7bc7, 0x6a4e, 0x58d5, 0x495c, 0x3de3, 0x2c6a, 0x1ef1, 0x0f78
};


void UInt16FCS::Calculate( const unsigned char* data, size_t length)
{
    const unsigned char* endPtr = data + length;
    while(data < endPtr)
      m_Value = (m_Value >> 8) ^ s_CRCTable[(m_Value ^ *data++) & 0xff];
}
```

Appendix B **–Supported Units Field Codes**

Table 14 Units Field

Unit of Measure	OBX-6.1	OBX-6.2	OBX-6.3	Comment
Date/Time	200	MNDRY_DIM_DATE_TIME	99MNDRY	/
Beats/Minute	264864	MDC_DIM_BEAT_PER_MIN	MDC	/
%	262688	MDC_DIM_PERCENT	MDC	/
mmHg	266016	MDC_DIM_MMHG	MDC	/
kPa	265987	MDC_DIM_KILO_PASCAL	MDC	/
mbar	266098	MDC_DIM_MILLI_BAR	MDC	/
ml/mbar	10002	MNDRY_DIM_MILLI_L_PER_MILLI_BAR	99MNDRY	/
mbar/l/s	10003	MNDRY_DIM_MILLI_BAR_PER_L_PER_SEC	99MNDRY	/
hPa	265986	MDC_DIM_HECTO_PASCAL	MDC	/
Kcal/day	270563	MDC_DIM_KILO_CAL_PER_DAY	MDC	/
kilograms (kg)	263875	MDC_DIM_KILO_G	MDC	/
pounds	263904	MDC_DIM_LB	MDC	/
ounces	263936	MDC_DIM_OZ	MDC	/
centimeters (cm)	263441	MDC_DIM_CENTI_M	MDC	/
millimeters (mm)	263442	MDC_DIM_MILLI_M	MDC	/
feet	263488	MDC_DIM_FOOT	MDC	/

inches	263520	MDC_DIM_INCH	MDC	/
m2	263616	MDC_DIM_SQ_M	MDC	/
millivolts	266418	MDC_DIM_MILLI_VOLT	MDC	/
Degrees Celsius	268192	MDC_DIM_DEGC	MDC	/
Degrees Fahrenheit	266560	MDC_DIM_FAHR	MDC	/
Respirations/Minute	264928	MDC_DIM_RESP_PER_MIN	MDC	/
l*min-1	265216	MDC_DIM_L_PER_MIN	MDC	/
l*min-1*m-2	264992	MDC_DIM_L_PER_MIN_PER_M_SQ	MDC	/
1/(min*L)	268672	MDC_DIM_PER_L_PER_MIN	MDC	/
min-1	264672	MDC_DIM_PER_MIN	MDC	/
Ohms (Ω)	266432	MDC_DIM_OHM	MDC	/
cmH2O	266048	MDC_DIM_CM_H2O	MDC	/
cmH2O/L	268288	MDC_DIM_CM_H2O_PER_L	MDC	/
cmH2O*s	10005	MNDRY_DIM_CM_H2O_SEC	99MNDRY	/
cmH2O/L/s	268064	MDC_DIM_CM_H2O_PER_L_PER_SEC	MDC	/
mL/cmH2O	268050	MDC_DIM_MILLI_L_PER_CM_H2O	MDC	/
ml	263762	MDC_DIM_MILLI_L	MDC	/
ml/kg	265330	MDC_DIM_MILLI_L_PER_KG	MDC	/
ml/min	265234	MDC_DIM_MILLI_L_PER_MIN	MDC	/
ml/m2	263570	MDC_DIM_MILLI_L_PER_M_SQ	MDC	/
ml/min/m2	265010	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ	MDC	/
ml/min/kg	10006	MNDRY_DIM_MILLI_L_PER_MIN_PER_KG	99MNDRY	/
ml/h	265266	MDC_DIM_MILLI_L_PER_HR	MDC	/
ml/hPa	10007	MNDRY_DIM_MILLI_L_PER_HECTO_PASCAL	99MNDRY	/
hPa/l/s	10008	MNDRY_DIM_HECTO_PASCAL_PER_L_PER_SEC	99MNDRY	/

DB	268576	MDC_DIM_DECIBEL	MDC	/
DS/cm5	10000	MNDRY_DIM_DYNE_SEC_PER_CM5	99MNDRY	/
DS*m-2/cm5	268160	MDC_DIM_DYNE_SEC_PER_M_SQ_PER_CM_5	MDC	/
hz	264640	MDC_DIM_HZ	MDC	/
min	264352	MDC_DIM_MIN	MDC	/
Second (s)	264320	MDC_DIM_SEC	MDC	/
ms	264638	MDC_DIM_MILLI_SEC	MDC	/
J	266112	MDC_DIM_X_JOULES	MDC	/
J/L	10009	MNDRY_DIM_JOULES_PER_L	99MNDRY	/
J/min	10010	MNDRY_DIM_JOULES_PER_MIN	99MNDRY	/
/kΩ	10011	MNDRY_DIM_PER_KILO_OHM	99MNDRY	/
/100s2	10012	MNDRY_DIM_PER_HECTO_SEC_SQ	99MNDRY	/
/1000s	264311	MDC_DIM_PER_KILO_SEC	MDC	/
kg*m	264003	MDC_DIM_KILO_G_M	MDC	/
kg*m/m2	264035	MDC_DIM_KILO_G_M_PER_M_SQ	MDC	/
g*m	264000	MDC_DIM_G_M	MDC	/
g*m/m2	264032	MDC_DIM_G_M_PER_M_SQ	MDC	/
W	266176	MDC_DIM_WATT	MDC	/
W/m2	10013	MNDRY_DIM_WATT_PER_M_SQ	99MNDRY	/
mmHg/s	10014	MNDRY_DIM_MMHG_PER_SEC	99MNDRY	/
g/dl	264256	MDC_DIM_G_PER_DL	MDC	/
rpm/l	270848	MDC_DIM_BREATHS_PER_MIN_PER_L	MDC	/
-	262656	MDC_DIM_DIMLESS	MDC	No unit of measure
mΩ	266450	MDC_DIM_MILLI_OHM	MDC	/
Uv	266419	MDC_DIM_MICRO_VOLT	MDC	/

-	262656	MDC_DIM_DIMLESS	MDC	No unit of measure
kPa*s/l	10016	MNDRY_DIM_KILO_PASCAL_SEC_PER_L	99MNDRY	/
kPa*s*m2/l	10017	MNDRY_DIM_KILO_PASCAL_SEC_M_SQ_PER_L	99MNDRY	/
Mbar*s	10018	MNDRY_DIM_MILLI_BAR_SEC	99MNDRY	/
hPa*s	10019	MNDRY_DIM_HECTO_PASCAL_SEC	99MNDRY	/
mW	266194	MDC_DIM_MILLI_WATT	MDC	/
mmol/L	266866	MDC_DIM_MILLI_MOLE_PER_L	MDC	/
mg/dL	264274	MDC_DIM_MILLI_G_PER_DL	MDC	/
L	263744	MDC_DIM_L	MDC	/
min*%	10001	MNDRY_DIM_MIN_PERCENT	99MNDRY	/
ml*beat-1	268274	MDC_DIM_MILLI_L_PER_BEAT	MDC	/
ml*beat-1*m2	10015	MNDRY_DIM_MILLI_L_PER_BEAT_PER_M_SQ	99MNDRY	/
ml/h/kg	11440	MNDRY_DIM_MILLI_L_PER_HR_PER_KG	99MNDRY	/
custom_unit1	11441	MNDRY_DIM_CUSTOM_UNIT1	99MNDRY	/
custom_unit2	11442	MNDRY_DIM_CUSTOM_UNIT2	99MNDRY	/
custom_unit3	11443	MNDRY_DIM_CUSTOM_UNIT3	99MNDRY	/
angle	262880	MDC_DIM_ANG_DEG	MDC	/
radian	262912	MDC_DIM_ANG_RAD	MDC	/
cmH2O/s	10022	MNDRY_DIM_CM_H2O_PER_SEC	99MNDRY	/
g/l	264192	MDC_DIM_G_PER_L	MDC	/
Amperes(A)	264192	MDC_DIM_AMPS	MDC	/
Milli amperes(mA)	266322	MDC_DIM_MILLI_AMPS	MDC	/
Part(s)	262752	MDC_DIM_PARTS_PER_10_TO_MINUS_6	MDC	/
dim/sec	264608	MDC_DIM_PER_SEC	MDC	/
year	264512	MDC_DIM_YR	MDC	/

%/L	272704	MDC_DIM_VOL_PERCENT_PER_L	MDC	/
hPa/L	10028	MNDRY_DIM_HECTO_PASCAL_PER_L	99MNDRY	/
mbar/L	272818	MDC_DIM_MILLI_BAR_PER_L	MDC	/
uA	266323	MDC_DIM_MICRO_AMPS	MDC	/
month	264480	MDC_DIM_MON	MDC	/
day	264416	MDC_DIM_DAY	MDC	/
hour	264384	MDC_DIM_HR	MDC	/
cL	263745	MDC_DIM_CENTI_L	MDC	/
cpm	10024	MNDRY_DIM_COMPRESSIONS_PER_MIN	99MNDRY	

Appendix C **–Supported Body Sites**

Table Body Sites

Site	OBX-20.1	OBX-20.2	OBX-20.3	Comment
Upper Arm	460532	MDC_UPEXT_ARM_UPPER	MDC	
Upper Arm, Left	460533	MDC_UPEXT_ARM_UPPER_L	MDC	
Upper Arm, Right	460534	MDC_UPEXT_ARM_UPPER_R	MDC	
Leg	460356	MDC_LOEXT_LEG	MDC	
Leg, Left	460357	MDC_LOEXT_LEG_L	MDC	
Leg, Right	460358	MDC_LOEXT_LEG_R	MDC	
Hand	460524	MDC_UPEXT_HAND	MDC	
Hand, Left	460525	MDC_UPEXT_HAND_L	MDC	
Hand, Right	460526	MDC_UPEXT_HAND_R	MDC	
Foot	460340	MDC_UPEXT_FOOT	MDC	
Foot, Left	460341	MDC_UPEXT_FOOT_L	MDC	
Foot, Right	460342	MDC_UPEXT_FOOT_R	MDC	
Ear	460272	MDC_HEAD_EAR	MDC	
Ear, Left	460273	MDC_HEAD_EAR_L	MDC	
Ear, Right	460274	MDC_HEAD_EAR_R	MDC	
Fore Head	460280	MDC_HEAD_FORE	MDC	
Fore Head, Left	460281	MDC_HEAD_FORE_L	MDC	
Fore Head, Right	460282	MDC_HEAD_FORE_R	MDC	
Trunk, Breast	460416	MDC_TRUNK_BREAST	MDC	
Frontal, Polar, Left	459793	MDC_HEAD_FRONT_POLAR_L	MDC	

Site	OBX-20.1	OBX-20.2	OBX-20.3	Comment
Frontal, Polar, Midline	459752	MDC_HEAD_FRONT_POLAR_MID	MDC	
Frontal, Polar, Right	459794	MDC_HEAD_FRONT_POLAR_R	MDC	
Frontal, Left, 7	459825	MDC_HEAD_FRONT_L_7	MDC	
Frontal, Left, 3	459809	MDC_HEAD_FRONT_L_3	MDC	
Frontal, Midline	459760	MDC_HEAD_FRONT_MID	MDC	
Frontal, Right, 4	459814	MDC_HEAD_FRONT_R_4	MDC	
Frontal, Right, 8	459830	MDC_HEAD_FRONT_R_8	MDC	
Temporal, Left, 3	460001	MDC_HEAD_TEMPOR_L_3	MDC	
Central, Left, 3	459889	MDC_HEAD_CENT_L_3	MDC	
Central, Midline	459768	MDC_HEAD_CENT_MID	MDC	
Central, Right, 4	459894	MDC_HEAD_CENT_R_4	MDC	
Temporal, Right, 4	460006	MDC_HEAD_TEMPOR_R_4	MDC	
Temporal, Left, 5	460009	MDC_HEAD_TEMPOR_L_5	MDC	
Parietal, Left, 3	459937	MDC_HEAD_PARIET_L_3	MDC	
Parietal, Midline	459776	MDC_HEAD_PARIET_MID	MDC	
Parietal, Right, 4	459942	MDC_HEAD_PARIET_R_4	MDC	
Temporal, Right, 6	460014	MDC_HEAD_TEMPOR_R_6	MDC	
Occipital, Left	459961	MDC_HEAD_OCCIP_L	MDC	
Occipital, Right	459966	MDC_HEAD_OCCIP_R	MDC	
Occipital, Midline	459784	MDC_HEAD_OCCIP_MID	MDC	

Appendix D –N-Series Monitors HL7 Export Nomenclature

D.1 Supported Observations Parameter

Table 15 ECG Observation Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
ECG Heart Rate	NM	147842	MDC_ECG_HEART_RATE	MDC	1.7.4.147842	MDC_DIM_BEAT_PER_MIN
Transthoracic Respiration Rate	NM	151578	MDC_TTHOR_RESP_RATE	MDC	1.7.1.151578	MDC_DIM_RESP_PER_MIN
PVCs/min	NM	148066	MDC_ECG_V_P_C_RATE	MDC	1.7.2.148066	MDC_DIM_BEAT_PER_MIN
Pauses/min	NM	108	MNDRY_ECG_PAUSE_RATE	99MNDRY	1.7.2.108	MDC_DIM_BEAT_PER_MIN
VPBs/min	NM	352	MNDRY_ECG_VPB_RATE	99MNDRY	1.7.2.352	MDC_DIM_BEAT_PER_MIN
Couplets/min	NM	298	MNDRY_ECG_COUPLETS_RATE	99MNDRY	1.7.2.298	MDC_DIM_BEAT_PER_MIN
Missed Beats/min	NM	299	MNDRY_ECG_MISSED_BEATS_RATE	99MNDRY	1.7.2.299	MDC_DIM_BEAT_PER_MIN
PNCs/min	NM	300	MNDRY_ECG_PACING_NON_CAPT_RATE	99MNDRY	1.7.5.300	MDC_DIM_BEAT_PER_MIN
PNPs/min	NM	301	MNDRY_ECG_PACER_NOT_PACING_RATE	99MNDRY	1.7.5.301	MDC_DIM_BEAT_PER_MIN
RonTs/min	NM	302	MNDRY_ECG_P_V_C_RonT_RATE	99MNDRY	1.7.2.302	MDC_DIM_BEAT_PER_MIN
Global QT-Interval Current	NM	147232	MDC_ECG_TIME_PD_QT_GL	MDC	1.7.6.147232	MDC_DIM_MILLI_SEC
Global QT-Interval Reference	NM	303	MNDRY_ECG_TIME_PD_QT_GL_REF	99MNDRY	1.7.6.303	MDC_DIM_MILLI_SEC
Global QTC-Interval	NM	304	MNDRY_ECG_QTC_GL	99MNDRY	1.7.6.304	MDC_DIM_MILLI_SEC

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Current						
Global QTC-Interval Reference	NM	305	MNDRY_ECG_QTC_GL_REF	99MNDRY	1.7.6.305	MDC_DIM_MILLI_SEC
QT HR Current	NM	307	MNDRY_ECG_QTC_HR	99MNDRY	1.7.6.307	MDC_DIM_BEAT_PER_MIN
QT HR Reference	NM	308	MNDRY_ECG_QTC_HR_REF	99MNDRY	1.7.6.308	MDC_DIM_BEAT_PER_MIN
△QTC	NM	309	MNDRY_ECG_QTC_DIFF	99MNDRY	1.7.6.309	MDC_DIM_MILLI_SEC
PR interval	NM	147216	MDC_ECG_TIME_PD_PQ	MDC	1.7.6.147216	MDC_DIM_MILLI_SEC
QRS Duration	NM	147228	MDC_ECG_TIME_PD_QRS_GL	MDC	1.7.6.147228	MDC_DIM_MILLI_SEC
P-Axis	NM	147200	MDC_ECG_ANGLE_P_FRONT	MDC	1.7.6.147200	MDC_DIM_ANG_DEG
QRS-Axis	NM	147204	MDC_ECG_ANGLE_QRS_FRONT	MDC	1.7.6.147204	MDC_DIM_ANG_DEG
T-Axis	NM	147208	MDC_ECG_ANGLE_T_FRONT	MDC	1.7.6.147208	MDC_DIM_ANG_DEG
R-Wave Amplitude, V5	NM	133127	MDC_ECG_AMPL_R_V5	MDC	1.7.6.133127	MDC_DIM_MILLI_VOLT
S-Wave Amplitude, V1	NM	133379	MDC_ECG_AMPL_S_V1	MDC	1.7.6.133379	MDC_DIM_MILLI_VOLT
ST I Current	NM	131841	MDC_ECG_AMPL_ST_I	MDC	1.7.3.131841	MDC_DIM_MILLI_VOLT
ST I Template	NM	72	MNDRY_ECG_TEMP_AMPL_ST_I	99MNDRY	1.7.3.72	MDC_DIM_MILLI_VOLT
ST I Reference	NM	73	MNDRY_ECG_REF_AMPL_ST_I	99MNDRY	1.7.3.73	MDC_DIM_MILLI_VOLT
ST II Current	NM	131842	MDC_ECG_AMPL_ST_II	MDC	1.7.3.131842	MDC_DIM_MILLI_VOLT
ST II Template	NM	74	MNDRY_ECG_TEMP_AMPL_ST_II	99MNDRY	1.7.3.74	MDC_DIM_MILLI_VOLT
ST II Reference	NM	75	MNDRY_ECG_REF_AMPL_ST_II	99MNDRY	1.7.3.75	MDC_DIM_MILLI_VOLT
ST III Current	NM	131901	MDC_ECG_AMPL_ST_III	MDC	1.7.3.131901	MDC_DIM_MILLI_VOLT
ST III Template	NM	76	MNDRY_ECG_TEMP_AMPL_ST_III	99MNDRY	1.7.3.76	MDC_DIM_MILLI_VOLT
ST III Reference	NM	77	MNDRY_ECG_REF_AMPL_ST_III	99MNDRY	1.7.3.77	MDC_DIM_MILLI_VOLT
ST aVR Current	NM	131902	MDC_ECG_AMPL_ST_AVR	MDC	1.7.3.131902	MDC_DIM_MILLI_VOLT
ST aVR Template	NM	78	MNDRY_ECG_TEMP_AMPL_ST_AVR	99MNDRY	1.7.3.78	MDC_DIM_MILLI_VOLT

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
ST aVR Reference	NM	79	MNDRY_ECG_REF_AMPL_ST_AVR	99MNDRY	1.7.3.79	MDC_DIM_MILLI_VOLT
ST aVL Current	NM	131903	MDC_ECG_AMPL_ST_AVL	MDC	1.7.3.131903	MDC_DIM_MILLI_VOLT
ST aVL Template	NM	80	MNDRY_ECG_TEMP_AMPL_ST_AVL	99MNDRY	1.7.3.80	MDC_DIM_MILLI_VOLT
ST aVL Reference	NM	81	MNDRY_ECG_REF_AMPL_ST_AVL	99MNDRY	1.7.3.81	MDC_DIM_MILLI_VOLT
ST aVF Current	NM	131904	MDC_ECG_AMPL_ST_AVF	MDC	1.7.3.131904	MDC_DIM_MILLI_VOLT
ST aVF Template	NM	82	MNDRY_ECG_TEMP_AMPL_ST_AVF	99MNDRY	1.7.3.82	MDC_DIM_MILLI_VOLT
ST aVF Reference	NM	83	MNDRY_ECG_REF_AMPL_ST_AVF	99MNDRY	1.7.3.83	MDC_DIM_MILLI_VOLT
ST V1 Current	NM	131843	MDC_ECG_AMPL_ST_V1	MDC	1.7.3.131843	MDC_DIM_MILLI_VOLT
ST V1 Template	NM	84	MNDRY_ECG_TEMP_AMPL_ST_V1	99MNDRY	1.7.3.84	MDC_DIM_MILLI_VOLT
ST V1 Reference	NM	85	MNDRY_ECG_REF_AMPL_ST_V1	99MNDRY	1.7.3.85	MDC_DIM_MILLI_VOLT
ST V2 Current	NM	131844	MDC_ECG_AMPL_ST_V2	MDC	1.7.3.131844	MDC_DIM_MILLI_VOLT
ST V2 Template	NM	86	MNDRY_ECG_TEMP_AMPL_ST_V2	99MNDRY	1.7.3.86	MDC_DIM_MILLI_VOLT
ST V2 Reference	NM	87	MNDRY_ECG_REF_AMPL_ST_V2	99MNDRY	1.7.3.87	MDC_DIM_MILLI_VOLT
ST V3 Current	NM	131845	MDC_ECG_AMPL_ST_V3	MDC	1.7.3.131845	MDC_DIM_MILLI_VOLT
ST V3 Template	NM	88	MNDRY_ECG_TEMP_AMPL_ST_V3	99MNDRY	1.7.3.88	MDC_DIM_MILLI_VOLT
ST V3 Reference	NM	89	MNDRY_ECG_REF_AMPL_ST_V3	99MNDRY	1.7.3.89	MDC_DIM_MILLI_VOLT
ST V4 Current	NM	131846	MDC_ECG_AMPL_ST_V4	MDC	1.7.3.131846	MDC_DIM_MILLI_VOLT
ST V4 Template	NM	90	MNDRY_ECG_TEMP_AMPL_ST_V4	99MNDRY	1.7.3.90	MDC_DIM_MILLI_VOLT
ST V4 Reference	NM	91	MNDRY_ECG_REF_AMPL_ST_V4	99MNDRY	1.7.3.91	MDC_DIM_MILLI_VOLT
ST V5 Current	NM	131847	MDC_ECG_AMPL_ST_V5	MDC	1.7.3.131847	MDC_DIM_MILLI_VOLT
ST V5 Template	NM	92	MNDRY_ECG_TEMP_AMPL_ST_V5	99MNDRY	1.7.3.92	MDC_DIM_MILLI_VOLT
ST V5 Reference	NM	93	MNDRY_ECG_REF_AMPL_ST_V5	99MNDRY	1.7.3.93	MDC_DIM_MILLI_VOLT
ST V6 Current	NM	131848	MDC_ECG_AMPL_ST_V6	MDC	1.7.3.131848	MDC_DIM_MILLI_VOLT
ST V6 Template	NM	94	MNDRY_ECG_TEMP_AMPL_ST_V6	99MNDRY	1.7.3.94	MDC_DIM_MILLI_VOLT

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
ST V6 Reference	NM	95	MNDRY_ECG_REF_AMPL_ST_V6	99MNDRY	1.7.3.95	MDC_DIM_MILLI_VOLT
ST V/Vx Current	NM	131927	MDC_ECG_AMPL_ST_V	MDC	1.7.3.131927	MDC_DIM_MILLI_VOLT
ST V/Vx Template	NM	96	MNDRY_ECG_TEMP_AMPL_ST_V	99MNDRY	1.7.3.96	MDC_DIM_MILLI_VOLT
ST V/Vx Reference	NM	97	MNDRY_ECG_REF_AMPL_ST_V	99MNDRY	1.7.3.97	MDC_DIM_MILLI_VOLT
ST Vy Current	NM	106	MNDRY_ECG_AMPL_ST_VB	99MNDRY	1.7.3.106	MDC_DIM_MILLI_VOLT
ST Vy Template	NM	98	MNDRY_ECG_TEMP_AMPL_ST_VB	99MNDRY	1.7.3.98	MDC_DIM_MILLI_VOLT
ST Vy Reference	NM	107	MNDRY_ECG_REF_AMPL_ST_VB	99MNDRY	1.7.3.107	MDC_DIM_MILLI_VOLT
DELTA_ST_I	NM	392	MNDRY_ECG_AMPL_DELTA_ST_I	99MNDRY	1.7.3.392	MDC_DIM_MILLI_VOLT
DELTA_ST_II	NM	393	MNDRY_ECG_AMPL_DELTA_ST_II	99MNDRY	1.7.3.393	MDC_DIM_MILLI_VOLT
DELTA_ST_III	NM	394	MNDRY_ECG_AMPL_DELTA_ST_III	99MNDRY	1.7.3.394	MDC_DIM_MILLI_VOLT
DELTA_ST_AVF	NM	395	MNDRY_ECG_AMPL_DELTA_ST_AVR	99MNDRY	1.7.3.395	MDC_DIM_MILLI_VOLT
DELTA_ST_AVL	NM	396	MNDRY_ECG_AMPL_DELTA_ST_AVL	99MNDRY	1.7.3.396	MDC_DIM_MILLI_VOLT
DELTA_ST_AVR	NM	397	MNDRY_ECG_AMPL_DELTA_ST_AVF	99MNDRY	1.7.3.397	MDC_DIM_MILLI_VOLT
DELTA_ST_V1	NM	398	MNDRY_ECG_AMPL_DELTA_ST_V1	99MNDRY	1.7.3.398	MDC_DIM_MILLI_VOLT
DELTA_ST_V2	NM	399	MNDRY_ECG_AMPL_DELTA_ST_V2	99MNDRY	1.7.3.399	MDC_DIM_MILLI_VOLT
DELTA_ST_V3	NM	400	MNDRY_ECG_AMPL_DELTA_ST_V3	99MNDRY	1.7.3.400	MDC_DIM_MILLI_VOLT
DELTA_ST_V4	NM	401	MNDRY_ECG_AMPL_DELTA_ST_V4	99MNDRY	1.7.3.401	MDC_DIM_MILLI_VOLT
DELTA_ST_V5	NM	402	MNDRY_ECG_AMPL_DELTA_ST_V5	99MNDRY	1.7.3.402	MDC_DIM_MILLI_VOLT
DELTA_ST_V6	NM	403	MNDRY_ECG_AMPL_DELTA_ST_V6	99MNDRY	1.7.3.403	MDC_DIM_MILLI_VOLT
DELTA_ST_Va	NM	404	MNDRY_ECG_AMPL_DELTA_ST_V	99MNDRY	1.7.3.404	MDC_DIM_MILLI_VOLT
DELTA_ST_Vb	NM	405	MNDRY_ECG_AMPL_DELTA_ST_VB	99MNDRY	1.7.3.405	MDC_DIM_MILLI_VOLT

[1] See T***able 80 QTC Formula Type Values*** for valid values.

Table 16 Pulse Oximetry Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
SpO_2 1 Saturation	150456	MDC_PULS_OXIM_SAT_O2	MDC	1.3.1.150456	MDC_DIM_PERCENT
SpO_2 1 Pulse Rate	149530	MDC_PULS_OXIM_PULS_RATE	MDC	1.3.1.149530	MDC_DIM_BEAT_PER_MIN
SpO_2 1 Perfusion Index	150488	MDC_BLD_PERF_INDEX	MDC	1.3.1.150488	MDC_DIM_PERCENT
SpO_2 2 Saturation	150456	MDC_PULS_OXIM_SAT_O2	MDC	1.3.2.150456	MDC_DIM_PERCENT
SpO_2 2 Pulse Rate	149530	MDC_PULS_OXIM_PULS_RATE	MDC	1.3.2.149530	MDC_DIM_BEAT_PER_MIN
SpO_2 2Perfusion Index	150488	MDC_BLD_PERF_INDEX	MDC	1.3.2.150488	MDC_DIM_PERCENT
△SpO2	137	MNDRY_PULS_OXIM_SAT_O2_DIFF	99MNDRY	1.3.1.137	MDC_DIM_PERCENT

Table 17 O2 Venous Saturation Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
SvO_2	150332	MDC_SAT_O2_VEN	MDC	1.4.1.150332	MDC_DIM_PERCENT
ScvO2(Central Venous Oxygen Saturation)	109	MNDRY_SAT_O2_VEN_CENT	99MNDRY	1.4.1.109	MDC_DIM_PERCENT
SaO2	150324	MDC_SAT_O2_ART	MDC	1.4.1.150324	MDC_DIM_PERCENT
VO2	152420	MDC_FLOW_O2_CONSUMP	MDC	1.4.1.152420	MDC_DIM_MILLI_L_PER_MIN
DO2	138	MNDRY_SAT_O2_DELIV	99MNDRY	1.4.1.138	MDC_DIM_MILLI_L_PER_MIN
DO2I	139	MNDRY_SAT_O2_DELIV_INDEX	99MNDRY	1.4.1.139	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
VO2I	140	MNDRY_SAT_O2_CONSUMP_INDEX	99MNDRY	1.4.1.140	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
Hb	159764	MDC_CONC_HB_ART	MDC	1.4.1.159764	MDC_DIM_G_PER_DL
Hct	160132	MDC_CONC_HCT_GEN	MDC	1.4.1.160132	MDC_DIM_PERCENT
O2EI	141	MNDRY_SAT_O2_EXTRACTION_INDEX	99MNDRY	1.4.1.141	MDC_DIM_PERCENT

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
SvO_2 SQI	142	MNDRY_SAT_O2_SIGNAL_QUALITY_INDEX	99MNDRY	1.4.1.142	MDC_DIM_DIMLESS

Table 18 Pressure Calculations

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
CePP	153604	MDC_PRESS_CEREB_PERF	MDC	1.1.10.153604	MDC_DIM_MMHG
APP	104	MNDRY_PRESS_ABDOM_PERF	99MNDRY	1.1.10.104	MDC_DIM_MMHG

Table 19 Blood Pressure Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
IBP Systolic, Channel 1-8	150017	MDC_PRESS_BLD_SYS	MDC	1.1.1.150017-1.1.8.150017	MDC_DIM_MMHG
IBP Diastolic, Channel 1-8	150018	MDC_PRESS_BLD_DIA	MDC	1.1.1.150018-1.1.8.150018	MDC_DIM_MMHG
IBP Mean, Channel 1-8	150019	MDC_PRESS_BLD_MEAN	MDC	1.1.1.150019-1.1.8.150019	MDC_DIM_MMHG
ART Systolic, Channel	150037	MDC_PRESS_BLD_ART_ABP_SYS	MDC	1.1.1.150037	MDC_DIM_MMHG
ART Diastolic, Channel	150038	MDC_PRESS_BLD_ART_ABP_DIA	MDC	1.1.1.150038	MDC_DIM_MMHG
ART Mean, Channel	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	1.1.1.150039	MDC_DIM_MMHG
ART pulse rate	364	MNDRY_BLD_PULS_RATE_ART_ABP	99MNDRY	1.1.1.364	MDC_DIM_BEAT_PER_MIN
ART2 Systolic, Channel	150037	MDC_PRESS_BLD_ART_ABP_SYS	MDC	1.1.2.150037	MDC_DIM_MMHG
ART2 Diastolic, Channel	150038	MDC_PRESS_BLD_ART_ABP_DIA	MDC	1.1.2.150038	MDC_DIM_MMHG
ART2 Mean, Channel	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	1.1.2.150039	MDC_DIM_MMHG
ART2 Pulse Rate	364	MNDRY_BLD_PULS_RATE_ART_ABP	99MNDRY	1.1.1.364	MDC_DIM_BEAT_PER_MIN

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
UA Systolic, Channel	150057	MDC_PRESS_BLD_ART_UMB_SYS	MDC	1.1.1.150057	MDC_DIM_MMHG
UA Diastolic, Channel	150058	MDC_PRESS_BLD_ART_UMB_DIA	MDC	1.1.1.150058	MDC_DIM_MMHG
UA Mean, Channel	150059	MDC_PRESS_BLD_ART_UMB_MEAN	MDC	1.1.1.150059	MDC_DIM_MMHG
UA Pulse Rate	365	MNDRY_BLD_PULS_RATE_ART_UMB	99MNDRY	1.1.1.365	MDC_DIM_BEAT_PER_MIN
LV Systolic, Channel	150101	MDC_PRESS_BLD_VENT_LEFT_SYS	MDC	1.1.1.150101	MDC_DIM_MMHG
LV Diastolic, Channel	150102	MDC_PRESS_BLD_VENT_LEFT_DIA	MDC	1.1.1.150102	MDC_DIM_MMHG
LV Mean, Channel	150103	MDC_PRESS_BLD_VENT_LEFT_MEAN	MDC	1.1.1.150103	MDC_DIM_MMHG
LV Pulse Rate	366	MNDRY_BLD_PULS_RATE_VENT_LEFT	99MNDRY	1.1.1.366	MDC_DIM_BEAT_PER_MIN
PA Systolic, Channel	150045	MDC_PRESS_BLD_ART_PULM_SYS	MDC	1.1.1.150045	MDC_DIM_MMHG
PA Diastolic, Channel	150046	MDC_PRESS_BLD_ART_PULM_DIA	MDC	1.1.1.150046	MDC_DIM_MMHG
PA Mean, Channel	150047	MDC_PRESS_BLD_ART_PULM_MEAN	MDC	1.1.1.150047	MDC_DIM_MMHG
PA Pulse Rate	368	MNDRY_BLD_PULS_RATE_ART_PULM	99MNDRY	1.1.1.368	MDC_DIM_BEAT_PER_MIN
CVP Systolic, Channel	150085	MDC_PRESS_BLD_VEN_CENT_SYS	MDC	1.1.1.150085	MDC_DIM_MMHG
CVP Diastolic, Channel	150086	MDC_PRESS_BLD_VEN_CENT_DIA	MDC	1.1.1.150086	MDC_DIM_MMHG
CVP Mean, Channel	150087	MDC_PRESS_BLD_VEN_CENT_MEAN	MDC	1.1.1.150087	MDC_DIM_MMHG
CVP Pulse Rate	369	MNDRY_BLD_PULS_RATE_VEN_CENT	99MNDRY	1.1.1.369	MDC_DIM_BEAT_PER_MIN
ICP Systolic, Channel	153609	MDC_PRESS_INTRA_CRAN_SYS	MDC	1.1.1.153609	MDC_DIM_MMHG
ICP Diastolic, Channel	153610	MDC_PRESS_INTRA_CRAN_DIA	MDC	1.1.1.153610	MDC_DIM_MMHG
ICP Mean, Channel	153611	MDC_PRESS_INTRA_CRAN_MEAN	MDC	1.1.1.153611	MDC_DIM_MMHG
ICP Pulse Rate	376	MNDRY_BLD_PULS_RATE_INTRA_CRAN	99MNDRY	1.1.1.376	MDC_DIM_BEAT_PER_MIN
IAP Systolic, Channel	101	MNDRY_PRESS_INTRA_ABDOM_SYS	99MNDRY	1.1.1.101	MDC_DIM_MMHG
IAP Diastolic, Channel	102	MNDRY_PRESS_INTRA_ABDOM_DIA	99MNDRY	1.1.1.102	MDC_DIM_MMHG
IAP Mean, Channel	103	MNDRY_PRESS_INTRA_ABDOM_MEAN	99MNDRY	1.1.1.103	MDC_DIM_MMHG
LA Systolic, Channel	150065	MDC_PRESS_BLD_ATR_LEFT_SYS	MDC	1.1.1.150065	MDC_DIM_MMHG

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
LA Diastolic, Channel	150066	MDC_PRESS_BLD_ATR_LEFT_DIA	MDC	1.1.1.150066	MDC_DIM_MMHG
LA Mean, Channel	150067	MDC_PRESS_BLD_ATR_LEFT_MEAN	MDC	1.1.1.150067	MDC_DIM_MMHG
LAP Pulse Rate	370	MNDRY_BLD_PULS_RATE_ATR_LEFT	99MNDRY	1.1.11.370	MDC_DIM_BEAT_PER_MIN
RA Systolic, Channel	150069	MDC_PRESS_BLD_ATR_RIGHT_SYS	MDC	1.1.1.150069	MDC_DIM_MMHG
RA Diastolic, Channel	150070	MDC_PRESS_BLD_ATR_RIGHT_DIA	MDC	1.1.1.150070	MDC_DIM_MMHG
RA Mean, Channel	150071	MDC_PRESS_BLD_ATR_RIGHT_MEAN	MDC	1.1.1.150071	MDC_DIM_MMHG
RAP Pulse Rate	371	MNDRY_BLD_PULS_RATE_ATR_RIGHT	99MNDRY	1.1.1.371	MDC_DIM_BEAT_PER_MIN
Ao Systolic, Channel	150029	MDC_PRESS_BLD_AORT_SYS	MDC	1.1.1.150029	MDC_DIM_MMHG
Ao Diastolic, Channel	150030	MDC_PRESS_BLD_AORT_DIA	MDC	1.1.1.150030	MDC_DIM_MMHG
Ao Mean, Channel	150031	MDC_PRESS_BLD_AORT_MEAN	MDC	1.1.1.150031	MDC_DIM_MMHG
Ao Pulse Rate	372	MNDRY_BLD_PULS_RATE_AORT	99MNDRY	1.1.1.372	MDC_DIM_BEAT_PER_MIN
BAP Systolic, Channel	150681	MDC_PRESS_BLD_ART_BRACHIAL_SYS	MDC	1.1.1. 150681	MDC_DIM_MMHG
BAP Diastolic, Channel	150682	MDC_PRESS_BLD_ART_BRACHIAL_DIA	MDC	1.1.1. 150682	MDC_DIM_MMHG
BAP Mean, Channel	150683	MDC_PRESS_BLD_ART_BRACHIAL_MEAN	MDC	1.1.1. 150683	MDC_DIM_MMHG
BAP Pulse Rate	373	MNDRY_BLD_PULS_RATE_ART_BRACHIAL	99MNDRY	1.1.1.373	MDC_DIM_BEAT_PER_MIN
FAP Systolic, Channel	150649	MDC_PRESS_BLD_ART_FEMORAL_SYS	MDC	1.1.1. 150649	MDC_DIM_MMHG
FAP Diastolic, Channel	150650	MDC_PRESS_BLD_ART_FEMORAL_DIA	MDC	1.1.1. 150650	MDC_DIM_MMHG
FAP Mean, Channel	150651	MDC_PRESS_BLD_ART_FEMORAL_MEAN	MDC	1.1.1. 150651	MDC_DIM_MMHG
FAP Pulse Rate	374	MNDRY_BLD_PULS_RATE_ART_FEMORIAL	99MNDRY	1.1.1.374	MDC_DIM_BEAT_PER_MIN
UVP Systolic, Channel 1-8	150089	MDC_PRESS_BLD_VEN_UMB_SYS	MDC	1.1.1.150089	MDC_DIM_MMHG
UVP Diastolic, Channel	150090	MDC_PRESS_BLD_VEN_UMB_DIA	MDC	1.1.1.150090	MDC_DIM_MMHG
UVP Mean, Channel	150091	MDC_PRESS_BLD_VEN_UMB_MEAN	MDC	1.1.1.150091	MDC_DIM_MMHG
UVP Pulse Rate	375	MNDRY_BLD_PULS_RATE_VEN_UMB	99MNDRY	1.1.1.375	MDC_DIM_BEAT_PER_MIN
pART Systolic, PiCCO	150033	MDC_PRESS_BLD_ART_SYS	MDC	1.1.11.150033	MDC_DIM_MMHG

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
pART Diastolic, PiCCO	150034	MDC_PRESS_BLD_ART_DIA	MDC	1.1.11.150034	MDC_DIM_MMHG
pART Mean, PiCCO	150035	MDC_PRESS_BLD_ART_MEAN	MDC	1.1.11.150035	MDC_DIM_MMHG
pART Pulse Rate	149522	MDC_BLD_PULS_RATE_INV	MDC	1.1.11.149522	MDC_DIM_BEAT_PER_MIN
pCVP Systolic, PiCCO	150085	MDC_PRESS_BLD_VEN_CENT_SYS	MDC	1.1.12.150085	MDC_DIM_MMHG
pCVP Diastolic, PiCCO	150086	MDC_PRESS_BLD_VEN_CENT_DIA	MDC	1.1.12.150086	MDC_DIM_MMHG
pCVP Mean, PiCCO	150087	MDC_PRESS_BLD_VEN_CENT_MEAN	MDC	1.1.12.150087	MDC_DIM_MMHG
pCVP Pulse Rate	149522	MDC_BLD_PULS_RATE_INV	MDC	1.1.12.149522	MDC_DIM_BEAT_PER_MIN
IBP Pulse Rate, Channel 1-8	149522	MDC_BLD_PULS_RATE_INV	MDC	1.1.1.149522-1.1.8.149522	MDC_DIM_BEAT_PER_MIN
NIBP Systolic	150301	MDC_PRESS_CUFF_SYS	MDC	1.1.9.150301	MDC_DIM_MMHG
NIBP Diastolic	150302	MDC_PRESS_CUFF_DIA	MDC	1.1.9.150302	MDC_DIM_MMHG
NIBP Mean	150303	MDC_PRESS_CUFF_MEAN	MDC	1.1.9.150303	MDC_DIM_MMHG
NIBP Pulse Rate	149546	MDC_PULS_RATE_NON_INV	MDC	1.1.9.149546	MDC_DIM_BEAT_PER_MIN
NIBP Cuff Pressure	150300	MDC_PRESS_CUFF	MDC	1.1.9.150300	MDC_DIM_MMHG

Table 20　Temperature Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Temperature 1-8	150344	MDC_TEMP	MDC	1.2.X.150344 X= 1-3，6-10	MDC_DIM_FAHR
Esophageal Temperature 1-8	150372	MDC_TEMP_ESOPH	MDC	1.2.X.150372 X= 1-3，6-10	MDC_DIM_FAHR
Nasal Temperature　1-8	150380	MDC_TEMP_NASOPH	MDC	1.2.X.150380 X= 1-3，6-10	MDC_DIM_FAHR
Rectal Temperature 1-8	188420	MDC_TEMP_RECT	MDC	1.2.X.188420	MDC_DIM_FAHR

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
				X= 1-3，6-10	
Bladder Temperature 1-8	150348	MDC_TEMP_FOLEY	MDC	1.2.X.150348 X= 1-3，6-10	MDC_DIM_FAHR
Axillary Temperature 1-8	105	MNDRY_TEMP_AXIL	99MNDRY	1.2.X.105 X= 1-3，6-10	MDC_DIM_FAHR
Skin Temperature 1-8	150388	MDC_TEMP_SKIN	MDC	1.2.X.150388 X= 1-3，6-10	MDC_DIM_FAHR
Oral Temperature 1-8	188424	MDC_TEMP_ORAL	MDC	1.2.X.188424 X= 1-3，6-10	MDC_DIM_FAHR
Tympanic Temperature 1-8	150392	MDC_TEMP_TYMP	MDC	1.2.X.150392 X= 1-3，6-10	MDC_DIM_FAHR
Intra-cranial Temperature 1-8	112	MNDRY_TEMP_INTR_CRAN	99MNDRY	1.2.X.112 X= 1-3，6-10	MDC_DIM_FAHR
Temple Temperature 1-8	471	MNDRY_TEMP_TEMPLE	99MNDRY	1.2.X.471 X= 1-3，6-10	MDC_DIM_FAHR
Ear Temperature 1-8	188428	MDC_TEMP_EAR	MDC	1.2.X.188428 X= 1-3，6-10	MDC_DIM_FAHR
Blood Temperature 1-8	188436	MDC_TEMP_BLD	MDC	1.2.X.188436 X= 1-3，6-10	MDC_DIM_FAHR
Core Temperature 1-8	150368	MDC_TEMP_CORE	MDC	1.2.X.150368 X= 1-3，6-10	MDC_DIM_FAHR
Ambiance Temperature 1-8	188508	MDC_TEMP_ROOM	MDC	1.2.X.188508 X= 1-3，6-10	MDC_DIM_FAHR
Airway Temperature 1-8	150356	MDC_TEMP_AWAY	MDC	1.2.X.150356 X= 1-3，6-10	MDC_DIM_FAHR

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Myocardium Temperature 1-8	188500	MDC_TEMP_MYO	MDC	1.2.X.188500 X= 1-3，6-10	MDC_DIM_FAHR
Artery Temperature 1-8	150352	MDC_TEMP_ART	MDC	1.2.X.150352 X= 1-3，6-10	MDC_DIM_FAHR
Vein Temperature 1-8	150396	MDC_TEMP_VEN	MDC	1.2.X.150396 X= 1-3，6-10	MDC_DIM_FAHR
△Temperature 1-4	188440	MDC_TEMP_DIFF	MDC	1.2.X.188440 X= 4，11-13	MDC_DIM_FAHR
Spot Temperature	150344	MDC_TEMP	MDC	1.2.5.150344	MDC_DIM_FAHR
Spot Rectal	188420	MDC_TEMP_RECT	MDC	1.2.5.188420	MDC_DIM_FAHR
Spot Axillary	105	MNDRY_TEMP_AXIL	99MNDRY	1.2.5.105	MDC_DIM_FAHR
Spot Tympanic	150392	MDC_TEMP_TYMP	MDC	1.2.5.150392	MDC_DIM_FAHR
Spot Oral	188424	MDC_TEMP_ORAL	MDC	1.2.5.188424	MDC_DIM_FAHR
Spot Ear Temperature	188428	MDC_TEMP_EAR	MDC	1.2.5.188428	MDC_DIM_FAHR
Spot Core Temperature	150368	MDC_TEMP_CORE	MDC	1.2.5.150368	MDC_DIM_FAHR

Table 21　CO2 Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Inspired CO_2 ($FiCO_2$)	151716	MDC_CONC_AWAY_CO2_INSP	MDC	1.8.1.151716	MDC_DIM_MMHG
End-Tidal CO_2 ($EtCO_2$)	151708	MDC_CONC_AWAY_CO2_ET	MDC	1.8.1.151708	MDC_DIM_MMHG
CO_2 Respiration Rate	151594	MDC_CO2_RESP_RATE	MDC	1.8.1.151594	MDC_DIM_RESP_PER_MIN

Table 22 Airway Gas Analyzer Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Inspired O_2 (FiO_2)	152196	MDC_CONC_AWAY_O2_INSP	MDC	1.9.1.152196	MDC_DIM_PERCENT
End-Tidal O_2 (EtO_2)	152440	MDC_CONC_AWAY_O2_ET	MDC	1.9.1.152440	MDC_DIM_PERCENT
Inspired N_2O (FiN_2O)	152192	MDC_CONC_AWAY_N2O_INSP	MDC	1.9.1.152192	MDC_DIM_PERCENT
End-Tidal N_2O (EtN_2O)	152108	MDC_CONC_AWAY_N2O_ET	MDC	1.9.1.152108	MDC_DIM_PERCENT
Agent, Inspired (FiAA), Primary	152464	MDC_CONC_AWAY_AGENT_INSP	MDC	1.9.1.152464	MDC_DIM_PERCENT
Agent, End Tidal (EtAA), Primary	152460	MDC_CONC_AWAY_AGENT_ET	MDC	1.9.1.152460	MDC_DIM_PERCENT
Desflurane, End Tidal (EtDes), Primary	152084	MDC_CONC_AWAY_DESFL_ET	MDC	1.9.1.152084	MDC_DIM_PERCENT
Desflurane, Inspired (FiDes) , Primary	152168	MDC_CONC_AWAY_DESFL_INSP	MDC	1.9.1.152168	MDC_DIM_PERCENT
Enflurane, End Tidal (EtEnfl), Primary	152088	MDC_CONC_AWAY_ENFL_ET	MDC	1.9.1.152088	MDC_DIM_PERCENT
Enflurane, Inspired (FiEnfl), Primary	152172	MDC_CONC_AWAY_ENFL_INSP	MDC	1.9.1.152172	MDC_DIM_PERCENT
Halothane, End Tidal (EtHal), Primary	152092	MDC_CONC_AWAY_HALOTH_ET	MDC	1.9.1.152092	MDC_DIM_PERCENT
Halothane, Inspired (FiHal), Primary	152176	MDC_CONC_AWAY_HALOTH_INSP	MDC	1.9.1.152176	MDC_DIM_PERCENT
Sevoflurane, End Tidal (EtSev), Primary	152096	MDC_CONC_AWAY_SEVOFL_ET	MDC	1.9.1.152096	MDC_DIM_PERCENT
Sevoflurane, Inspired (FiSev), Primary	152180	MDC_CONC_AWAY_SEVOFL_INSP	MDC	1.9.1.152180	MDC_DIM_PERCENT
Isoflurane, End Tidal (EtIso),	152100	MDC_CONC_AWAY_ISOFL_ET	MDC	1.9.1.152100	MDC_DIM_PERCENT

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Primary					
Isoflurane, Inspired (FiIso), Primary	152184	MDC_CONC_AWAY_ISOFL_INSP	MDC	1.9.1.152184	MDC_DIM_PERCENT
Agent, Inspired (FiAA), Secondary	152464	MDC_CONC_AWAY_AGENT_INSP	MDC	1.9.2.152464	MDC_DIM_PERCENT
Agent, End Tidal (EtAA), Secondary	152460	MDC_CONC_AWAY_AGENT_ET	MDC	1.9.2.152460	MDC_DIM_PERCENT
Desflurane, End Tidal (EtDes), Secondary	152084	MDC_CONC_AWAY_DESFL_ET	MDC	1.9.2.152084	MDC_DIM_PERCENT
Desflurane, Inspired (FiDes) , Secondary	152168	MDC_CONC_AWAY_DESFL_INSP	MDC	1.9.2.152168	MDC_DIM_PERCENT
Enflurane, End Tidal (EtEnfl), Secondary	152088	MDC_CONC_AWAY_ENFL_ET	MDC	1.9.2.152088	MDC_DIM_PERCENT
Enflurane, Inspired (FiEnfl), Secondary	152172	MDC_CONC_AWAY_ENFL_INSP	MDC	1.9.2.152172	MDC_DIM_PERCENT
Halothane, End Tidal (EtHal), Secondary	152092	MDC_CONC_AWAY_HALOTH_ET	MDC	1.9.2.152092	MDC_DIM_PERCENT
Halothane, Inspired (FiHal), Secondary	152176	MDC_CONC_AWAY_HALOTH_INSP	MDC	1.9.2.152176	MDC_DIM_PERCENT
Sevoflurane, End Tidal (EtSev), Secondary	152096	MDC_CONC_AWAY_SEVOFL_ET	MDC	1.9.2.152096	MDC_DIM_PERCENT
Sevoflurane, Inspired (FiSev), Secondary	152180	MDC_CONC_AWAY_SEVOFL_INSP	MDC	1.9.2.152180	MDC_DIM_PERCENT
Isoflurane, End Tidal (EtIso), Secondary	152100	MDC_CONC_AWAY_ISOFL_ET	MDC	1.9.2.152100	MDC_DIM_PERCENT
Isoflurane, Inspired (FiIso),	152184	MDC_CONC_AWAY_ISOFL_INSP	MDC	1.9.2.152184	MDC_DIM_PERCENT

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Secondary					
Mean Alveolar Concentration (MAC)	119	MNDRY_CONC_MAC	99MNDRY	1.9.1.119	MDC_DIM_DIMLESS

Table 23 Body Measurement Observation Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Height	NM	188740	MDC_LEN_BODY_ACTUAL	MDC	1.10.1.188740	MDC_DIM_CENTI_M
Weight	NM	188736	MDC_MASS_BODY_ACTUAL	MDC	1.10.1.188736	MDC_DIM_KILO_G

Table 24 Wedge Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
PAWP	150052	MDC_PRESS_BLD_ART_PULM_OCCL	MDC	1.5.1.150052	MDC_DIM_MMHG

Table 25 Airway Multi-Parameter Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Peak Inspiratory Pressure (PIP, Ppeak)	151817	MDC_PRESS_AWAY_INSP_PEAK	MDC	1.11.1.151817	MDC_DIM_CM_H2O
Mean Airway Pressure (Pmean)	151819	MDC_PRESS_AWAY_INSP_MEAN	MDC	1.11.1.151819	MDC_DIM_CM_H2O
PEEP	151804	MDC_PRESS_AWAY_END_EXP_POS	MDC	1.11.1.151804	MDC_DIM_CM_H2O

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Plateau Pressure (Pplat)	151784	MDC_PRESS_RESP_PLAT	MDC	1.11.1.151784	MDC_DIM_CM_H2O
Peak Inspiratory Flow (PIF)	151773	MDC_FLOW_AWAY_INSP_MAX	MDC	1.11.2.151773	MDC_DIM_L_PER_MIN
Peak Expiratory Flow (PEF)	151769	MDC_FLOW_AWAY_EXP_MAX	MDC	1.11.2.151769	MDC_DIM_L_PER_MIN
Expiratory Tidal Volume (VTe)	143	MNDRY_VOL_AWAY_TIDAL_EXP	99MNDRY	1.11.3.143	MDC_DIM_MILLI_L
Expired Minute Volume (MVe)	151884	MDC_VOL_MINUTE_AWAY_EXP	MDC	1.11.3.151884	MDC_DIM_L_PER_MIN
Inspiratory Tidal Volume (VTi)	144	MNDRY_VOL_AWAY_TIDAL_INSP	99MNDRY	1.11.3.144	MDC_DIM_MILLI_L
Inspired Minute Volume (MVi)	151888	MDC_VOL_MINUTE_AWAY_INSP	MDC	1.11.3.151888	MDC_DIM_L_PER_MIN
I:E	151832	MDC_RATIO_IE	MDC	1.11.4.151832	MDC_DIM_DIMLESS
Breath Rate (RR)	151570	MDC_AWAY_RESP_RATE	MDC	1.11.4.151570	MDC_DIM_RESP_PER_MIN
Pulmonary Compliance (Compl.)	151688	MDC_COMPL_LUNG	MDC	1.11.4.151688	MDC_DIM_MILLI_L_PER_CM_H2O
First Second Forced Expiratory Volume Ratio (FEV1.0)	145	MNDRY_RATIO_VOL_FORCED_EXP	99MNDRY	1.11.4.145	MDC_DIM_PERCENT
Rapid Shallow Breathing Index (RSBI)	146	MNDRY_RAPID_SHALLOW_BREATH_INDEX	99MNDRY	1.11.4.146	MDC_DIM_BREATHS_PER_MIN_PER_L
Airway Resistance (Raw)	151840	MDC_RES_AWAY	MDC	1.11.4.151840	MDC_DIM_CM_H2O_PER_L_PER_SEC
Negative Inspiratory Pressure(NIP)	193	MNDRY_PRESSURE_NEGATIVE_INSPIRATORY	99MNDRY	1.11.1.193	MDC_DIM_CM_H2O
Work of Breathing (WOB)	183	MNDRY_WK_OF_BREATHING_VENT	99MNDRY	1.11.4.183	MNDRY_DIM_JOULES_PER_L

Table 26 Cardiac Output Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
CO	150276	MDC_OUTPUT_CARD	MDC	1.6.1.150276	MDC_DIM_L_PER_MIN

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
CI	149772	MDC_OUTPUT_CARD_INDEX	MDC	1.6.1.149772	MDC_DIM_L_PER_MIN_PER_M_SQ
Average CO	150276	MDC_OUTPUT_CARD	MDC	1.6.1.150276	MDC_DIM_L_PER_MIN
Average CI	149772	MDC_OUTPUT_CARD_INDEX	MDC	1.6.1.149772	MDC_DIM_L_PER_MIN_PER_M_SQ
T Blood	188436	MDC_TEMP_BLD	MDC	1.6.1.188436	MDC_DIM_FAHR
△T Blood	312	MNDRY_TEMP_BLD_DIFF	99MNDRY	1.6.1.312	MDC_DIM_FAHR
TI	150376	MDC_TEMP_INJ	MDC	1.6.1.150376	MDC_DIM_FAHR
Average TI	150376	MDC_TEMP_INJ	MDC	1.6.1.150376	MDC_DIM_FAHR
CCO	150492	MDC_OUTPUT_CARD_CTS	MDC	1.6.2.150492	MDC_DIM_L_PER_MIN
CCI	378	MNDRY_OUTPUT_CARD_INDEX_CTS	99MNDRY	1.6.2.378	MDC_DIM_L_PER_MIN_PER_M_SQ
ICG Ejection Fraction (EF)	339	MNDRY_EJECTION_FRACTION	99MNDRY	1.6.3.339	MDC_DIM_PERCENT
ICG Stroke Index (SI)	340	MNDRY_STROKE_INDEX	99MNDRY	1.6.3.340	MDC_DIM_MILLI_L_PER_M_SQ
ICG SQI	341	MNDRY_ICG_SIGNAL_QUALITY_INDEX	99MNDRY	1.6.3.341	MDC_DIM_DIMLESS
EDV	150528	MDC_VOL_VENT_L_END_DIA	MDC	1.6.3.150528	MDC_DIM_MILLI_L
EDVI	214	MNDRY_VOL_VENT_L_END_DIA_INDEX	99MNDRY	1.6.3.214	MDC_DIM_MILLI_L_PER_M_SQ
GEDV	212	MNDRY_VOL_GLOBAL_END_DIA	99MNDRY	1.6.3.212	MDC_DIM_MILLI_L
GEDI	213	MNDRY_VOL_GLOBAL_L_END_DIA_INDEX	99MNDRY	1.6.3.213	MDC_DIM_MILLI_L_PER_M_SQ
Average GEDV	313	MNDRY_VOL_GLOBAL_END_DIA_AVG	99MNDRY	1.6.3.313	MDC_DIM_MILLI_L
Average GEDI	314	MNDRY_VOL_GLOBAL_L_END_DIA_INDEX _AVG	99MNDRY	1.6.3.314	MDC_DIM_MILLI_L_PER_M_SQ
ICG SVR	150312	MDC_RES_VASC_SYS	MDC	1.6.3.150312	MNDRY_DIM_DYNE_SEC_PER_CM5
ICG SVRI	149760	MDC_RES_VASC_SYS_INDEX	MDC	1.6.3.149760	MDC_DIM_DYNE_SEC_PER_M_SQ_PER_CM_5
SV	150404	MDC_VOL_BLD_STROKE	MDC	1.6.3.150404	MDC_DIM_MILLI_L
SVI	147	MNDRY_VOL_BLD_STROKE_INDEX	99MNDRY	1.6.3.147	MDC_DIM_MILLI_L_PER_M_SQ
SVV	148	MNDRY_VOL_BLD_STROKE_VARIATION	99MNDRY	1.6.3.148	MDC_DIM_PERCENT

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
ESV	150532	MDC_VOL_VENT_L_END_SYS	MDC	1.6.3.150532	MDC_DIM_MILLI_L
ESVI	149	MNDRY_VOL_VENT_L_END_SYS_INDEX	99MNDRY	1.6.3.149	MDC_DIM_MILLI_L_PER_M_SQ
Right Ventricle Ejection Fraction (RVEF)	150	MNDRY_EJECTION_FRACTION_VENT_RIGHT	99MNDRY	1.6.3.150	MDC_DIM_PERCENT
Intrathoracic Blood Volume (ITBV)	151	MNDRY_VOL_BLD_INTRATHORACIC	99MNDRY	1.6.3.151	MDC_DIM_MILLI_L
Intrathoracic Blood Volume Index (ITBI)	152	MNDRY_VOL_BLD_INTRATHORACIC_INDEX	99MNDRY	1.6.3.152	MDC_DIM_MILLI_L_PER_M_SQ
Average ITBV,	315	MNDRY_VOL_BLD_INTRATHORACIC_AVG	99MNDRY	1.6.3.315	MDC_DIM_MILLI_L
Average ITBI	316	MNDRY_VOL_BLD_INTRATHORACIC_INDEX_AVG	99MNDRY	1.6.3.316	MDC_DIM_MILLI_L_PER_M_SQ
Pulse Pressure Variation (PPV)	153	MNDRY_PRESS_PULSE_VARIATION	99MNDRY	1.6.3.153	MDC_DIM_PERCENT
Global Ejection Fraction (GEF)	154	MNDRY_EJECTION_FRACTION_GLOBAL	99MNDRY	1.6.3.154	MDC_DIM_PERCENT
Average GEF	317	MNDRY_EJECTION_FRACTION_GLOBAL_AVG	99MNDRY	1.6.3.317	MDC_DIM_PERCENT
Cardiac Function Index (CFI)	155	MNDRY_CARD_FUNCTION_INDEX	99MNDRY	1.6.3.155	MDC_DIM_PER_MIN
Average CFI	318	MNDRY_CARD_FUNCTION_INDEX_AVG	99MNDRY	1.6.3.318	MDC_DIM_PER_MIN
Left Ventricular Contractility (dPmx)	156	MNDRY_CONTRACTILITY_LEFT_VENT	99MNDRY	1.6.3.156	MNDRY_DIM_MMHG_PER_SEC
Extra Vascular Lung Water (EVLW)	157	MNDRY_EXTRA_VASC_LUNG_WATER	99MNDRY	1.6.3.157	MDC_DIM_MILLI_L
Extra Vascular Lung Water Index (ELWI)	158	MNDRY_EXTRA_VASC_LUNG_WATER_INDEX	99MNDRY	1.6.3.158	MDC_DIM_MILLI_L_PER_KG
Average EVLW	319	MNDRY_EXTRA_VASC_LUNG_WATER_AVG	99MNDRY	1.6.3.319	MDC_DIM_MILLI_L

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Average ELWI	320	MNDRY_EXTRA_VASC_LUNG_WATER_INDEX_AVG	99MNDRY	1.6.3.320	MDC_DIM_MILLI_L_PER_KG
Pulmonary Vascular Permeability Index (PVPI)	159	MNDRY_PULM_VASC_PERM_INDEX	99MNDRY	1.6.3.159	MDC_DIM_DIMLESS
Average PVPI	321	MNDRY_PULM_VASC_PERM_INDEX_AVG	99MNDRY	1.6.3.321	MDC_DIM_DIMLESS
Cardiac Power Output (CPO)	160	MNDRY_POWER_CARD_OUTPUT	99MNDRY	1.6.3.160	MDC_DIM_WATT
Cardiac Power Index (CPI)	161	MNDRY_POWER_CARD_OUTPUT_INDEX	99MNDRY	1.6.3.161	MNDRY_DIM_WATT_PER_M_SQ
Thoracic Fluid Content (TFC)	162	MNDRY_THORACIC_FLUID_CONTENT	99MNDRY	1.6.3.162	MNDRY_DIM_PER_KILO_OHM
Thoracic Fluid Index (TFI)	163	MNDRY_THORACIC_FLUID_INDEX	99MNDRY	1.6.3.163	MDC_DIM_OHM
Acceleration Index (ACI)	164	MNDRY_ACCEL_BLD_AORTA_INDEX	99MNDRY	1.6.3.164	MNDRY_DIM_PER_HECTO_SEC_SQ
Velocity Index (VI)	165	MNDRY_VELOC_BLD_AORTA_INDEX	99MNDRY	1.6.3.165	MDC_DIM_PER_KILO_SEC
Left Cardiac Work (LCW)	150416	MDC_WK_CARD_LEFT	MDC	1.6.3.150416	MDC_DIM_KILO_G_M
Left Cardiac Work Index (LCWI)	166	MNDRY_WK_CARD_LEFT_INDEX	99MNDRY	1.6.3.166	MDC_DIM_KILO_G_M_PER_M_SQ
Right Cardiac Work (RCW)	150420	MDC_WK_CARD_RIGHT	MDC	1.6.3.150420	MDC_DIM_KILO_G_M
Right Cardiac Work Index (RCWI)	167	MNDRY_WK_CARD_RIGHT_INDEX	99MNDRY	1.6.3.167	MDC_DIM_KILO_G_M_PER_M_SQ
RVSW	150436	MDC_WK_RV_STROKE	MDC	1.6.3.150436	MDC_DIM_G_M
Right Ventricle Stroke Work Index (RVSWI)	168	MNDRY_WK_RV_STROKE_INDEX	99MNDRY	1.6.3.168	MDC_DIM_G_M_PER_M_SQ
Systolic Time Ratio (STR)	169	MNDRY_SYSTOLIC_TIME_RATIO	99MNDRY	1.6.3.169	MDC_DIM_DIMLESS
Pre-Ejection Period (PEP)	170	MNDRY_TIME_PD_LV_PREEJECT	99MNDRY	1.6.3.170	MDC_DIM_MILLI_SEC
Left Ventricle Ejection Time (LVET)	171	MNDRY_TIME_PD_LV_EJECT	99MNDRY	1.6.3.171	MDC_DIM_MILLI_SEC

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Volume of Electrically Participating Thoracic Tissue (VEPT)	172	MNDRY_VOL_ELECTRICAL_PARTICIPATING_TISSUE_THORAX	99MNDRY	1.6.3.172	MDC_DIM_MILLI_L
Pulmonary Vascular Resistance (PVR)	150308	MDC_RES_VASC_PULM	MDC	1.6.3.150308	MNDRY_DIM_DYNE_SEC_PER_CM5
Pulmonary Vascular Resistance Index (PVRI)	173	MNDRY_RES_VASC_PULM_INDEX	99MNDRY	1.6.3.173	MDC_DIM_DYNE_SEC_PER_M_SQ_PER_CM_5
LVSW	150428	MDC_WK_LV_STROKE	MDC	1.6.3.150428	MDC_DIM_G_M
LVSWI	149764	MDC_WK_LV_STROKE_INDEX	MDC	1.6.3.149764	MDC_DIM_G_M_PER_M_SQ
pCVP	150084	MDC_PRESS_BLD_VEN_CENT	MDC	1.6.3.150084	MDC_DIM_MMHG
Mean Arterial Pressure (MAP)	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	1.6.3.150039	MDC_DIM_MMHG
HR	147842	MDC_ECG_CARD_BEAT_RATE	MDC	1.6.3.147842	MDC_DIM_BEAT_PER_MIN
CCO SVR	150312	MDC_RES_VASC_SYS	MDC	1.6.4.150312	MNDRY_DIM_DYNE_SEC_PER_CM5
CCO SVRI	149760	MDC_RES_VASC_SYS_INDEX	MDC	1.6.4.149760	MDC_DIM_DYNE_SEC_PER_M_SQ_PER_CM_5

Table 27 BIS Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2	OBX-20
BIS	120	MNDRY_EEG_BISPECTRAL_INDEX	99MNDRY	1.12.1.120	MDC_DIM_DIMLESS	
BIS L	120	MNDRY_EEG_BISPECTRAL_INDEX	99MNDRY	1.12.1.120	MDC_DIM_DIMLESS	MDC_HEAD_FORE_L
BIS R	120	MNDRY_EEG_BISPECTRAL_INDEX	99MNDRY	1.12.1.120	MDC_DIM_DIMLESS	MDC_HEAD_FORE_R
SQI	122	MNDRY_EEG_SIGNAL_QUALITY_INDEX	99MNDRY	1.12.1.122	MDC_DIM_PERCENT	
SQI L	122	MNDRY_EEG_SIGNAL_QUALITY_INDEX	99MNDRY	1.12.1.122	MDC_DIM_PERCENT	MDC_HEAD_FORE_L
SQI R	122	MNDRY_EEG_SIGNAL_QUALITY_INDEX	99MNDRY	1.12.1.122	MDC_DIM_PERCENT	MDC_HEAD_FORE_R

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2	OBX-20
EMG	153916	MDC_EMG_ELEC_POTL_MUSCL	MDC	1.12.1.153916	MDC_DIM_DECIBEL	
EMG L	153916	MDC_EMG_ELEC_POTL_MUSCL	MDC	1.12.1.153916	MDC_DIM_DECIBEL	MDC_HEAD_FORE_L
EMG R	153916	MDC_EMG_ELEC_POTL_MUSCL	MDC	1.12.1.153916	MDC_DIM_DECIBEL	MDC_HEAD_FORE_R
SR	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	1.12.1.155024	MDC_DIM_PERCENT	
SR L	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	1.12.1.155024	MDC_DIM_PERCENT	MDC_HEAD_FORE_L
SR R	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	1.12.1.155024	MDC_DIM_PERCENT	MDC_HEAD_FORE_R
SEF	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	1.12.1.153992	MDC_DIM_HZ	
SEF L	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	1.12.1.153992	MDC_DIM_HZ	MDC_HEAD_FORE_L
SEF R	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	1.12.1.153992	MDC_DIM_HZ	MDC_HEAD_FORE_R
TP	154040	MDC_EEG_PWR_SPEC_TOT	MDC	1.12.1.154040	MDC_DIM_DECIBEL	
TP L	154040	MDC_EEG_PWR_SPEC_TOT	MDC	1.12.1.154040	MDC_DIM_DECIBEL	MDC_HEAD_FORE_L
TP R	154040	MDC_EEG_PWR_SPEC_TOT	MDC	1.12.1.154040	MDC_DIM_DECIBEL	MDC_HEAD_FORE_R
BC	154028	MDC_EEG_NUM_SPK	MDC	1.12.1.154028	MDC_DIM_PER_MIN	
BC L	154028	MDC_EEG_NUM_SPK	MDC	1.12.1.154028	MDC_DIM_PER_MIN	MDC_HEAD_FORE_L
BC R	154028	MDC_EEG_NUM_SPK	MDC	1.12.1.154028	MDC_DIM_PER_MIN	MDC_HEAD_FORE_R
sBIS L(Left BIS Variability Index)	121	MNDRY_EEG_BISPECTRAL_VARI_INDEX	99MNDRY	1.12.1.121	MDC_DIM_DIMLESS	MDC_HEAD_FORE_L
sBIS R(Right BIS Variability Index)	121	MNDRY_EEG_BISPECTRAL_VARI_INDEX	99MNDRY	1.12.1.121	MDC_DIM_DIMLESS	MDC_HEAD_FORE_R
sEMG L(Left EMG Variability Index)	123	MNDRY_EMG_ELEC_POTL_MUSCL_VARI_INDEX	99MNDRY	1.12.1.123	MDC_DIM_DIMLESS	MDC_HEAD_FORE_L
sEMG R(Right EMG Variability	123	MNDRY_EMG_ELEC_POTL_MUSCL_VARI_IN	99MNDRY	1.12.1.123	MDC_DIM_DIMLESS	MDC_HEAD_FORE_R

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2	OBX-20
Index)		DEX				
ASYM	124	MNDRY_EEG_ASYMMERTRY	99MNDRY	1.12.1.124	MDC_DIM_PERCENT	

Table 28 Ventilator Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
O2%	151908	MDC_CONC_AWAY_O2	MDC	1.13.1.151908	MDC_DIM_PERCENT
PEEP	151976	MDC_VENT_PRESS_AWAY_END_EXP_POS	MDC	1.13.1.151976	MDC_DIM_CM_H2O
PEEP Setting	20017	MNDRY_PRESS_AWAY_END_EXP_POS_SETTING	99MNDRY	1.13.1.20017	MDC_DIM_CM_H2O
Airway Pressure (Paw)	151972	MDC_VENT_PRESS_AWAY	MDC	1.13.1.151972	MDC_DIM_CM_H2O
ΔO2	151912	MDC_VENT_CONC_AWAY_O2_DELTA	MDC	1.13.1.151912	MDC_DIM_MMHG MDC_DIM_PERCENT
Peak Pressure (Ppeak)	151817	MDC_PRESS_AWAY_INSP_PEAK	MDC	1.13.1.151817	MDC_DIM_CM_H2O
Plateau Pressure (Pplat)	151784	MDC_PRESS_RESP_PLAT	MDC	1.13.1.151784	MDC_DIM_CM_H2O
Mean Pressure (Pmean)	151819	MDC_PRESS_AWAY_INSP_MEAN	MDC	1.13.1.151819	MDC_DIM_CM_H2O
Tidal Volume (VT)	331	MNDRY_VOL_AWAY_TIDAL	99MNDRY	1.13.1.331	MDC_DIM_MILLI_L
Expiratory Tidal Volume (VTe)	143	MNDRY_VOL_AWAY_TIDAL_EXP	99MNDRY	1.13.1.143	MDC_DIM_MILLI_L
Inspiratory Tidal Volume (VTi)	144	MNDRY_VOL_AWAY_TIDAL_INSP	99MNDRY	1.13.1.144	MDC_DIM_MILLI_L
VT/kg(expiratory tidal volume per body weight)	176	MNDRY_VOL_EXP_TIDAL_PER_WEIGHT	99MNDRY	1.13.1.176	MDC_DIM_MILLI_L_PER_KG
VTe spn(spontaneous expiratory tidal volume)	177	MNDRY_VOL_SPON_EXP_TIDAL	99MNDRY	1.13.1.177	MDC_DIM_MILLI_L

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
VTapnea	20062	MNDRY_VOL_AWAY_TIDAL_APNEA_SETTING	99MNDRY	1.13.1.20062	MDC_DIM_MILLI_L
Minute Volume (MV)	152008	MDC_VENT_VOL_MINUTE_AWAY	MDC	1.13.1.152008	MDC_DIM_L_PER_MIN
MV Setting	20053	MNDRY_VENT_VOL_MINUTE_AWAY_SETTING	99MNDRY	1.13.1.20053	MDC_DIM_L_PER_MIN
Spontaneous Minute Volume (MVspn)	151880	MDC_VOL_MINUTE_AWAY	MDC	1.13.1.151880	MDC_DIM_L_PER_MIN
Expired Minute Volume (MVe)	152000	MDC_VENT_VOL_MINUTE_EXP	MDC	1.13.1.152000	MDC_DIM_L_PER_MIN
Inspired Minute Volume (MVi)	152004	MDC_VENT_VOL_MINUTE_INSP	MDC	1.13.1.152004	MDC_DIM_L_PER_MIN
Total Breath Rate (ftot)	178	MNDRY_BREATH_RATE_TOTAL	99MNDRY	1.13.1.178	MDC_DIM_RESP_PER_MIN
Mandatory Breath Rate (fmand)	179	MNDRY_BREATH_RATE_MAND	99MNDRY	1.13.1.179	MDC_DIM_RESP_PER_MIN
Spontaneous Breath Rate (fspn)	180	MNDRY_BREATH_RATE_SPONT	99MNDRY	1.13.1.180	MDC_DIM_RESP_PER_MIN
fapnea	20028	MNDRY_VENT_APNEA_RATE_SETTING	99MNDRY	1.13.1.20028	MDC_DIM_RESP_PER_MIN
fCMV	20057	MNDRY_BREATH_RATE_CMV_SETTING	99MNDRY	1.13.1.20057	MDC_DIM_RESP_PER_MIN
fSIMV	20020	MNDRY_VENT_SIMV_RATE_SETTING	99MNDRY	1.13.1.20020	MDC_DIM_RESP_PER_MIN
Rate Setting	20016	MNDRY_VENT_RESP_RATE_SETTING	99MNDRY	1.13.1.20016	MDC_DIM_RESP_PER_MIN
I:E	151832	MDC_RATIO_IE	MDC	1.13.1.151832	MDC_DIM_DIMLESS
I:E Setting	20000	MNDRY_RATIO_IE_SETTING	99MNDRY	1.13.1.20000	MDC_DIM_DIMLESS
fsigh	20054	MNDRY VENT_SIGH_BREATH_FREQ_SETTING	99MNDRY	1.13.1.20054	MDC_DIM_RESP_PER_MIN
VTsigh	20055	MNDRY VENT_SIGH_BREATH_TIDAL_VOL_SETTING	99MNDRY	1.13.1.20055	MDC_DIM_MILLI_L
Delta int. PEEP	20034	MNDRY_VENT_INT_PEEP_DELTA_SETTING	99MNDRY	1.13.1.20034	MDC_DIM_CM_H2O
Leakage Volume (MVLeak)	152432	MDC_VENT_VOL_LEAK	MDC	1.13.1.152432	MDC_DIM_L_PER_MIN

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Leak Compensation	345	MNDRY_VENT_LEAK_COMPENSATION	99MNDRY	1.13.1.345	MDC_DIM_PERCENT
FiO2	152196	MDC_CONC_AWAY_O2_INSP	MDC	1.13.1.152196	MDC_DIM_MMHG
EtO2	152440	MDC_CONC_AWAY_O2_ET	MDC	1.13.1.152440	MDC_DIM_MMHG
Static Lung Resistance (Rstat)	181	MNDRY_RESISTANCE_LUNG_STATIC	99MNDRY	1.13.1.181	MDC_DIM_CM_H2O_PER_L_PER_SEC
Dynamic Lung Resistance (Rdyn)	182	MNDRY_RESISTANCE_LUNG_DYNAMIC	99MNDRY	1.13.1.182	MDC_DIM_CM_H2O_PER_L_PER_SEC
Static Compliance (Cstat)	151696	MDC_COMPL_LUNG_STATIC	MDC	1.13.1.151696	MDC_DIM_MILLI_L_PER_CM_H2O
Dynamic Compliance (Cdyn)	151692	MDC_COMPL_LUNG_DYN	MDC	1.13.1.151692	MDC_DIM_MILLI_L_PER_CM_H2O
Rapid Shallow Breathing Index (RSBI)	146	MNDRY_RAPID_SHALLOW_BREATH_INDEX	99MNDRY	1.13.1.146	MDC_DIM_BREATHS_PER_MIN_PER_L
Work of Breathing (WOB)	183	MNDRY_WK_OF_BREATHING_VENT	99MNDRY	1.13.1.183	MNDRY_DIM_JOULES_PER_L
Imposed Work of Breathing (WOBimp)	184	MNDRY_WK_OF_BREATHING_SPON_VENT	99MNDRY	1.13.1.184	MNDRY_DIM_JOULES_PER_MIN
O2 Flow	232	MNDRY_FLOW_O2	99MNDRY	1.13.1.232	MDC_DIM_L_PER_MIN
Air Flow	233	MNDRY_FLOW_AIR	99MNDRY	1.13.1.233	MDC_DIM_L_PER_MIN
Insp. Flow	151948	MDC_VENT_FLOW_INSP	MDC	1.13.1.151948	MDC_DIM_L_PER_MIN
Exp. Flow	151944	MDC_VENT_FLOW_EXP	MDC	1.13.1.151944	MDC_DIM_L_PER_MIN
Ext. Flow (External Flow)	234	MNDRY_FLOW_EXTERNAL	99MNDRY	1.13.1.234	MDC_DIM_L_PER_MIN
Base Flow	20078	MNDRY_VENT_FLOW_BASE_SETTING	99MNDRY	1.13.1.20078	MDC_DIM_L_PER_MIN
Tsupp	20076	MNDRY_VENT_SUPPORT_TIME_SETTING	99MNDRY	1.13.1.20076	MDC_DIM_SEC
F Trigger	20014	MNDRY_VENT_FLOW_TRIG_SENS_SETTING	99MNDRY	1.13.1.20014	MDC_DIM_L_PER_MIN
Exp%	20026	MNDRY_VENT_EXP_TRIGGER_SETTING	99MNDRY	1.13.1.20026	MDC_DIM_PERCENT
P Trigger	20019	MNDRY_VENT_PRESS_TRIG_SENS_SETTIN	99MNDRY	1.13.1.20019	MDC_DIM_CM_H2O

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
		G			
△P, ΔPsupp, PASB	20003	MNDRY_VENT_DELTA_PRESS_SETTING	99MNDRY	1.13.1.20003	MDC_DIM_CM_H2O
Plimit	20013	MNDRY_VENT_PRESS_LIMIT_SETTING	99MNDRY	1.13.1.20013	MDC_DIM_CM_H2O
Tplat	20056	MNDRY_VENT_PLAT_TIME_SETTING	99MNDRY	1.13.1.20056	MDC_DIM_SEC
Tinsp	20051	MNDRY_VENT_INSP_PD_SETTING	99MNDRY	1.13.1.20051	MDC_DIM_SEC
Texp	229	MNDRY_TIME_PD_EXP	99MNDRY	1.13.1.229	MDC_DIM_SEC
Pinsp	20002	MNDRY_VENT_PRESS_INSP_SETTING	99MNDRY	1.13.1.20002	MDC_DIM_CM_H2O
▵Papnea	20027	MNDRY_VENT_DELTA_PRESS_APNEA_SETTING	99MNDRY	1.13.1.20027	MDC_DIM_CM_H2O
TPause, Tip	20048	MNDRY_VENT_PAUSE_TIME_SETTING	99MNDRY	1.13.1.20048	MDC_DIM_SEC
Tpause%, TIP:TI	20007	MNDRY_VENT_PAUSE_TIME_PERCENT_SETTING	99MNDRY	1.13.1.20007	MDC_DIM_PERCENT
Tslope, Trise, P-Ramp	20005	MNDRY_VENT_SLOPE_TIME_SETTING	99MNDRY	1.13.1.20005	MDC_DIM_SEC MDC_DIM_MILLI_SEC
Tslope% or Trise%	20049	MNDRY_VENT_SLOPE_TIME_PERCENT_SETTING	99MNDRY	1.13.1.20049	MDC_DIM_PERCENT
Phigh	20022	MNDRY_VENT_PRESS_HIGH_SETTING	99MNDRY	1.13.1.20022	MDC_DIM_CM_H2O
Plow	20023	MNDRY_VENT_PRESS_LOW_SETTING	99MNDRY	1.13.1.20023	MDC_DIM_CM_H2O
Thigh	20024	MNDRY_VENT_TIME_HIGH_SETTING	99MNDRY	1.13.1.20024	MDC_DIM_SEC
Tlow	20025	MNDRY_VENT_TIME_LOW_SETTING	99MNDRY	1.13.1.20025	MDC_DIM_SEC
Pmax	20040	MNDRY_PV_TOOL_PMAX_SETTING	99MNDRY	1.13.1.20040	MDC_DIM_CM_H2O
△Pinsp, PC above PEEP	20069	MNDRY_VENT_DELTA_PRESS_INSP_SETTING	99MNDRY	1.13.1.20069	MDC_DIM_CM_H2O
PEEP/CPAP	20077	MNDRY_PEEP_CPAP_SETTING	99MNDRY	1.13.1.20077	MDC_DIM_CM_H2O

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Max Positive Auxiliary Pressure (Paux Peak)	185	MNDRY_PRESS_AUX_POSITIVE_MAX	99MNDRY	1.13.1.185	MDC_DIM_CM_H2O
Mean Auxiliary Pressure (Paux Mean)	186	MNDRY_PRESS_AUX_MEAN	99MNDRY	1.13.1.186	MDC_DIM_CM_H2O
Minimum Auxiliary Pressure (Paux Min)	187	MNDRY_PRESS_AUX_MIN	99MNDRY	1.13.1.187	MDC_DIM_CM_H2O
Base Press	188	MNDRY_PRESS_BASE	99MNDRY	1.13.1.188	MDC_DIM_CM_H2O
Inspiratory Flow Resistance (Rinsp)	151848	MDC_RES_AWAY_INSP	MDC	1.13.1.151848	MDC_DIM_CM_H2O_PER_L_PER_SEC
Expiratory Flow Resistance (Rexp)	151844	MDC_RES_AWAY_EXP	MDC	1.13.1.151844	MDC_DIM_CM_H2O_PER_L_PER_SEC
Expiratory Time Constant (RCexp)	189	MNDRY_TIME_CONSTANT_EXP	99MNDRY	1.13.1.189	MDC_DIM_SEC
Inspiratory Time Constant (RCinsp)	190	MNDRY_TIME_CONSTANT_INSP	99MNDRY	1.13.1.190	MDC_DIM_SEC
Pressure Time Product (PTP)	191	MNDRY_PRESS_TIME_PRODUCT	99MNDRY	1.13.1.191	MNDRY_DIM_CM_H2O_SEC
Pmin	151794	MDC_PRESS_AWAY_MIN	MDC	1.13.1.151794	MDC_DIM_CM_H2O
Vtrap	226	MNDRY_VOL_TRAP	99MNDRY	1.13.1.226	MDC_DIM_MILLI_L
PO2	152292	MDC_VENT_AWAY_O2	MDC	1.13.1.152292	MDC_DIM_KILO_PASCAL
Pair(Air Supply Pressure)	216	MNDRY_PRESS_SUPPLY_AIR	99MNDRY	1.13.1.216	MDC_DIM_KILO_PASCAL
O2 cyl.(oxygen cylinder pressure)	217	MNDRY_PRESS_CYLINDER_O2	99MNDRY	1.13.1.217	MDC_DIM_KILO_PASCAL
O2 cyl.2nd(secondary oxygen cylinder pressure)	218	MNDRY_PRESS_CYLINDER_O2_SECONDARY	99MNDRY	1.13.1.218	MDC_DIM_KILO_PASCAL
air cyl.(air cylinder pressure)	219	MNDRY_PRESS_CYLINDER_AIR	99MNDRY	1.13.1.219	MDC_DIM_KILO_PASCAL

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Fractional Residual Capacity (FRC)	192	MNDRY_CAPACITY_FRACTIONAL_RESIDUAL	99MNDRY	1.13.1.192	MDC_DIM_MILLI_L
T (Temp)	150344	MDC_TEMP	MDC	1.13.1.150344	MDC_DIM_DEGC
NIP(Negative Inspiratory pressure)	193	MNDRY_PRESSURE_NEGATIVE_INSPIRATORY	99MNDRY	1.13.1.193	MDC_DIM_CM_H2O
Airway Occlusion Pressure (P0.1)	194	MNDRY_PRESS_100_MS_OCCLUSION	99MNDRY	1.13.1.194	MDC_DIM_CM_H2O
Intrinsic PEEP (PEEPi)	151808	MDC_PRESS_AWAY_END_EXP_POS_INTRINSIC	MDC	1.13.1.151808	MDC_DIM_CM_H2O
Extrinsic PEEP (PEEPe)	195	MNDRY_PRESS_AWAY_END_EXP_POS_EXTRINSIC	99MNDRY	1.13.1.195	MDC_DIM_CM_H2O
Total PEEP (PEEPtot)	196	MNDRY_PRESS_AWAY_END_EXP_POS_TOTAL	99MNDRY	1.13.1.196	MDC_DIM_CM_H2O
EtCO2	151928	MDC_VENT_AWAY_CO2_ET	MDC	1.13.1.151928	MDC_DIM_MMHG
FiCO2	151936	MDC_VENT_AWAY_CO2_INSP	MDC	1.13.1.151936	MDC_DIM_MMHG
RRCO2	151610	MDC_VENT_CO2_RESP_RATE	MDC	1.13.1.151610	MDC_DIM_RESP_PER_MIN
Flow	20058	MNDRY_VENT_FLOW_SETTING	99MNDRY	1.13.1.20058	MDC_DIM_L_PER_MIN
Peak Flow	20059	MNDRY_VENT_FLOW_PEAK_SETTING	99MNDRY	1.13.1.20059	MDC_DIM_L_PER_MIN
TiMax	20060	MNDRY_VENT_TIME_INS_MAX_SETTING	99MNDRY	1.13.1.20060	MDC_DIM_SEC
Tube Resistance Compensation (TRC)	197	MNDRY_RESISTANCE_TUBE_COMP	99MNDRY	1.13.1.197	MDC_DIM_DIMLESS
ASB Ramp	20061	MNDRY_VENT_PRESS_RAMP_PD_PS_SETTING	99 MNDRY	1.13.1.20061	MDC_DIM_SEC
PASB(Assisted Spontaneous Breathing)	198	MNDRY_PRESS_ASSIST_SPON_BREATH	99MNDRY	1.13.1.198	MDC_DIM_CM_H2O

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
FlowAssist	230	MNDRY_ASSIST_FLOW	99MNDRY	1.13.1.230	MDC_DIM_CM_H2O_PER_L_PER_SEC
Vol.Assist	231	MNDRY_ASSIST_VOL	99MNDRY	1.13.1.231	MDC_DIM_CM_H2O_PER_L
Tdisconnect	227	MNDRY_TIME_DISCONNECT	99MNDRY	1.13.1.227	MDC_DIM_SEC
Flow Acceleration	20066	MNDRY_VENT_FLOW_ACC_SETTING	99MNDRY	1.13.1.20066	MNDRY_DIM_CM_H2O_PER_SEC
MinVol%	20067	MNDRY_VENT_MIN_VOLUME_PERCENT_SETTING	99MNDRY	1.13.1.20067	MDC_DIM_PERCENT
Airway Dead Space (Vds,VDaw)	151984	MDC_VENT_VOL_AWAY_DEADSP	MDC	1.13.1.151984	MDC_DIM_MILLI_L
Energy Expenditure (EE)	228	MNDRY_RESP_EXPENDED_ENERGY	99MNDRY	1.13.1.228	MNDRY_DIM_KILO_CAL_PER_DAY
Respiratory Quotient (RQ)	151828	MDC_QUO_RESP	MDC	1.13.1.151828	MDC_DIM_DIMLESS
VO2	152420	MDC_FLOW_O2_CONSUMP	MDC	1.13.1.152420	MDC_DIM_MILLI_L_PER_MIN
VCO2	151776	MDC_FLOW_CO2_PROD_RESP	MDC	1.13.1.151776	MDC_DIM_MILLI_L_PER_MIN
VO2/m2	207	MNDRY_FLOW_O2_CONSUMP_PER_M_SQ	99MNDRY	1.13.1.207	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
VCO2/m2	208	MDNRY_FLOW_CO2_PROD_RESP_PER_M_SQ	99MNDRY	1.13.1.208	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
VO2/kg	209	MNDRY_FLOW_O2_CONSUMP_PER_KG	99MNDRY	1.13.1.209	MNDRY_DIM_MILLI_L_PER_MIN_PER_KG
VCO2/kg	210	MDNRY_FLOW_CO2_PROD_RESP_PER_KG	99MNDRY	1.13.1.210	MNDRY_DIM_MILLI_L_PER_MIN_PER_KG
ATC(Automatic Tube Compensation)	222	MNDRY_AUTO_TUBE_COMP	99MNDRY	1.13.1.222	MDC_DIM_PERCENT
Tube ID	223	MNDRY_ET_TUBE_INNER_DIAMETER	99MNDRY	1.13.1.223	MDC_DIM_PER_MIN
PR	149546	MDC_PULS_RATE_NON_INV	MDC	1.13.1.149546	MDC_DIM_BEAT_PER_MIN
SpO2	150456	MDC_PULS_OXIM_SAT_O2	MDC	1.13.1.150456	MDC_DIM_PERCENT
VTCO2	346	MNDRY_VOL_AWAY_TIDAL_CO2	99MNDRY	1.13.1.346	MDC_DIM_MILLI_L
O2% Setting	20018	MNDRY_VENT_O2_SETTING	99MNDRY	1.13.1.20018	MDC_DIM_PERCENT

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Tpeep	20068	MNDRY_VENT_TIME_PEEP_SETTING	99MNDRY	1.13.1.20068	MDC_DIM_SEC
TI:TTOT	343	MNDRY_RATIO_TI_TTOT	99MNDRY	1.13.1.343	MDC_DIM_DIMLESS

Table 29 Anaethesia Machine Observation Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
O2%	151908	MDC_CONC_AWAY_O2	MDC	1.14.1.151908	MDC_DIM_PERCENT
PEEP	151804	MDC_PRESS_AWAY_END_EXP_POS	MDC	1.14.1.151804	MDC_DIM_CM_H2O
PEEP Setting	20017	MNDRY_PRESS_AWAY_END_EXP_POS_SETTING	99MNDRY	1.14.1.20017	MDC_DIM_CM_H2O
Peak Pressure (Ppeak)	151817	MDC_PRESS_AWAY_INSP_PEAK	MDC	1.14.1.151817	MDC_DIM_CM_H2O
Plateau Pressure (Pplat)	151784	MDC_PRESS_RESP_PLAT	MDC	1.14.1.151784	MDC_DIM_CM_H2O
Mean Pressure (Pmean)	151819	MDC_PRESS_AWAY_INSP_MEAN	MDC	1.14.1.151819	MDC_DIM_CM_H2O
Airway Pressure (Paw)	151972	MDC_VENT_PRESS_AWAY	MDC	1.14.1.151972	MDC_DIM_CM_H2O
Tidal Volume (VT)	331	MNDRY_VOL_AWAY_TIDAL	99MNDRY	1.14.1.331	MDC_DIM_MILLI_L
Expiratory Tidal Volume (VTe)	143	MNDRY_VOL_AWAY_TIDAL_EXP	99MNDRY	1.14.1.143	MDC_DIM_MILLI_L
Inspiratory Tidal Volume (VTi)	144	MNDRY_VOL_AWAY_TIDAL_INSP	99MNDRY	1.14.1.144	MDC_DIM_MILLI_L
VTi Setting	20050	MNDRY_VOL_AWAY_TIDAL_INSP_SETTING	99MNDRY	1.14.1.20050	MDC_DIM_MILLI_L
Minute Volume (MV)	152008	MDC_VENT_VOL_MINUTE_AWAY	MDC	1.14.1.152008	MDC_DIM_L_PER_MIN
MV Setting	20053	MNDRY_VENT_VOL_MINUTE_AWAY_SETTING	99MNDRY	1.14.1.20053	MDC_DIM_L_PER_MIN
Spontaneous Minute Volume (MVspn)	151880	MDC_VOL_MINUTE_AWAY	MDC	1.14.1.151880	MDC_DIM_L_PER_MIN
Expired Minute Volume (MVe)	152000	MDC_VENT_VOL_MINUTE_EXP	MDC	1.14.1.152000	MDC_DIM_L_PER_MIN

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Inspired Minute Volume (MVi)	152004	MDC_VENT_VOL_MINUTE_INSP	MDC	1.14.1.152004	MDC_DIM_L_PER_MIN
Leakage Volume (MVLeak)	152432	MDC_VENT_VOL_LEAK	MDC	1.14.1.152432	MDC_DIM_L_PER_MIN
Rate Setting	20016	MNDRY_VENT_RESP_RATE_SETTING	99MNDRY	1.14.1.20016	MDC_DIM_RESP_PER_MIN
RR	151562	MDC_RESP_RATE	MDC	1.14.1.151562	MDC_DIM_RESP_PER_MIN
Total Breath Rate (ftot)	178	MNDRY_BREATH_RATE_TOTAL	99MNDRY	1.14.1.178	MDC_DIM_RESP_PER_MIN
Mandatory Breath Rate (fmand)	179	MNDRY_BREATH_RATE_MAND	99MNDRY	1.14.1.179	MDC_DIM_RESP_PER_MIN
Spontaneous Breath Rate (fspn)	180	MNDRY_BREATH_RATE_SPONT	99MNDRY	1.14.1.180	MDC_DIM_RESP_PER_MIN
fSIMV	20020	MNDRY_VENT_SIMV_RATE_SETTING	99MNDRY	1.14.1.20020	MDC_DIM_RESP_PER_MIN
Minimum Respiration Rate (fmin)	20001	MNDRY_RESP_RATE_MIN_SETTING	99MNDRY	1.14.1.20001	MDC_DIM_RESP_PER_MIN
I:E	151832	MDC_RATIO_IE	MDC	1.14.1.151832	MDC_DIM_DIMLESS
I:E Setting	20000	MNDRY_RATIO_IE_SETTING	99MNDRY	1.14.1.20000	MDC_DIM_DIMLESS
Tpause%, TIP:TI	20007	MNDRY_VENT_PAUSE_TIME_PERCENT_SETTING	99MNDRY	1.14.1.20007	MDC_DIM_PERCENT
Tslope, Trise, P-Ramp	20005	MNDRY_VENT_SLOPE_TIME_SETTING	99MNDRY	1.14.1.20005	MDC_DIM_SEC MDC_DIM_MILLI_SEC
Tinsp	20051	MNDRY_VENT_INSP_PD_SETTING	99MNDRY	1.14.1.20051	MDC_DIM_SEC
Texp	229	MNDRY_TIME_PD_EXP	99MNDRY	1.14.1.229	MDC_DIM_SEC
SIMV Trigger Window	20044	MNDRY_VENT_TRIGGER_WINDOW_SETTING	99MNDRY	1.14.1.20044	MDC_DIM_PERCENT
Plimit	20013	MNDRY_VENT_PRESS_LIMIT_SETTING	99MNDRY	1.14.1.20013	MDC_DIM_CM_H2O
Pinsp	20002	MNDRY_VENT_PRESS_INSP_SETTING	99MNDRY	1.14.1.20002	MDC_DIM_CM_H2O
△P, ΔPsupp, PASB	20003	MNDRY_VENT_DELTA_PRESS_SETTING	99MNDRY	1.14.1.20003	MDC_DIM_CM_H2O

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Pmax	20040	MNDRY_PV_TOOL_PMAX_SETTING	99MNDRY	1.14.1.20040	MDC_DIM_CM_H2O
F trigger	20014	MNDRY_VENT_FLOW_TRIG_SENS_SETTING	99MNDRY	1.14.1.20014	MDC_DIM_L_PER_MIN
P trigger	20019	MNDRY_VENT_PRESS_TRIG_SENS_SETTING	99MNDRY	1.14.1.20019	MDC_DIM_CM_H2O
Insp. Flow	151948	MDC_VENT_FLOW_INSP	MDC	1.14.1.151948	MDC_DIM_L_PER_MIN
Exp. Flow	151944	MDC_VENT_FLOW_EXP	MDC	1.14.1.151944	MDC_DIM_L_PER_MIN
Exp%	20026	MNDRY_VENT_EXP_TRIGGER_SETTING	99MNDRY	1.14.1.20026	MDC_DIM_PERCENT
Pulmonary Compliance (Compl.)	151688	MDC_COMPL_LUNG	MDC	1.14.1.151688	MDC_DIM_MILLI_L_PER_CM_H2O
Airway Resistance (Raw)	151840	MDC_RES_AWAY	MDC	1.14.1.151840	MDC_DIM_CM_H2O_PER_L_PER_SEC
Pmin	151794	MDC_PRESS_AWAY_MIN	MDC	1.14.1.151794	MDC_DIM_CM_H2O
Paux Min(minimum auxiliary pressure)	187	MNDRY_PRESS_AUX_MIN	99MNDRY	1.14.1.187	MDC_DIM_CM_H2O
Paux Peak(max positive auxiliary pressure)	185	MNDRY_PRESS_AUX_POSITIVE_MAX	99MNDRY	1.14.1.185	MDC_DIM_CM_H2O
Paux Mean	186	MNDRY_PRESS_AUX_MEAN	99MNDRY	1.14.1.186	MDC_DIM_CM_H2O
FRC(fractional residual capacity)	192	MNDRY_CAPACITY_FRACTIONAL_RESIDUAL	99MNDRY	1.14.1.192	MDC_DIM_MILLI_L
Intrinsic PEEP (PEEPi)	151808	MDC_PRESS_AWAY_END_EXP_POS_INTRINSIC	MDC	1.14.1.151808	MDC_DIM_CM_H2O
Extrinsic PEEP (PEEPe)	195	MNDRY_PRESS_AWAY_END_EXP_POS_EXTRINSIC	99MNDRY	1.14.1.195	MDC_DIM_CM_H2O
Total PEEP (PEEPtot)	196	MNDRY_PRESS_AWAY_END_EXP_POS_T	99MNDRY	1.14.1.196	MDC_DIM_CM_H2O

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
		OTAL			
PEEPi Time	224	MNDRY_TIME_PRESS_AWAY_END_EXP_POS_INTRINSIC	99MNDRY	1.14.1.224	MDC_DIM_MIN
P0.1 time	225	MNDRY_TIME_PRESS_100_MS_OCCLUSION	99MNDRY	1.14.1.225	MDC_DIM_MIN
P0.1(100 ms occlusion pressure)	194	MNDRY_PRESS_100_MS_OCCLUSION	99MNDRY	1.14.1.194	MDC_DIM_CM_H2O
Trise%	20049	MNDRY_VENT_SLOPE_TIME_PERCENT_SETTING	99MNDRY	1.14.1.20049	MDC_DIM_PERCENT
Tinsp%	20052	MNDRY_VENT_INSP_PD_PERCENT_SETTING	99MNDRY	1.14.1.20052	MDC_DIM_PERCENT
Tpuase, Tip	20048	MNDRY_VENT_PAUSE_TIME_SETTING	99MNDRY	1.14.1.20048	MDC_DIM_SEC
△Pinsp, PC above PEEP	20069	MNDRY_VENT_DELTA_PRESS_INSP_SETTING	99MNDRY	1.14.1.20069	MDC_DIM_CM_H2O
TI:TTOT	343	MNDRY_RATIO_TI_TTOT	99MNDRY	1.14.1.343	MDC_DIM_DIMLESS
O2% Setting	20018	MNDRY_VENT_O2_SETTING	99MNDRY	1.14.1.20018	MDC_DIM_PERCENT
VtG	20006	MNDRY_VENT_TIDAL_VOL_GUARANTEED_SETTING	99MNDRY	1.14.1.20006	MDC_DIM_MILLI_L
PlimVG	20008	MNDRY_VENT_PRESS_LIMIT_VOL_GUARANTEE_SETTING	99MNDRY	1.14.1.20008	MDC_DIM_CM_H2O
RRCO2	151610	MDC_VENT_CO2_RESP_RATE	MDC	1.14.1.151610	MDC_DIM_RESP_PER_MIN
EtCO2	151928	MDC_VENT_AWAY_CO2_ET	MDC	1.14.1.151928	MDC_DIM_MMHG
FiCO2	151936	MDC_VENT_AWAY_CO2_INSP	MDC	1.14.1.151936	MDC_DIM_MMHG
FiO2	152196	MDC_CONC_AWAY_O2_INSP	MDC	1.14.1.152196	MDC_DIM_MMHG

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
EtO2	152440	MDC_CONC_AWAY_O2_ET	MDC	1.14.1.152440	MDC_DIM_MMHG
ΔO2	151912	MDC_VENT_CONC_AWAY_O2_DELTA	MDC	1.14.1.151912	MDC_DIM_MMHG
Tapnea	151856	MDC_TIME_PD_APNEA	MDC	1.14.1.151856	MDC_DIM_SEC
FiN2O	152192	MDC_CONC_AWAY_N2O_INSP	MDC	1.14.1.152192	MDC_DIM_PERCENT
EtN2O	152108	MDC_CONC_AWAY_N2O_ET	MDC	1.14.1.152108	MDC_DIM_PERCENT
FiDes FiDes 2nd	152168	MDC_CONC_AWAY_DESFL_INSP	MDC	1.14.1.152168 1.14.2.152168	MDC_DIM_PERCENT
EtDes EtDes 2nd	152084	MDC_CONC_AWAY_DESFL_ET	MDC	1.14.1.152084 1.14.2.152084	MDC_DIM_PERCENT
FiSev FiSev 2nd	152180	MDC_CONC_AWAY_SEVOFL_INSP	MDC	1.14.1.152180 1.14.2.152180	MDC_DIM_PERCENT
EtSev EtSev 2nd	152096	MDC_CONC_AWAY_SEVOFL_ET	MDC	1.14.1.152096 1.14.2.152096	MDC_DIM_PERCENT
FiEnf FiEnf 2nd	152172	MDC_CONC_AWAY_ENFL_INSP	MDC	1.14.1.152172 1.14.2.152172	MDC_DIM_PERCENT
EtEnf EtEnf 2nd	152088	MDC_CONC_AWAY_ENFL_ET	MDC	1.14.1.152088 1.14.2.152088	MDC_DIM_PERCENT
FiIso	152184	MDC_CONC_AWAY_ISOFL_INSP	MDC	1.14.1.152184	MDC_DIM_PERCENT

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
FiIso 2nd				1.14.2.152184	
EtIso EtIso 2nd	152100	MDC_CONC_AWAY_ISOFL_ET	MDC	1.14.1.152100 1.14.2.152100	MDC_DIM_PERCENT
FiHal FiHal 2nd	152176	MDC_CONC_AWAY_HALOTH_INSP	MDC	1.14.1.152176 1.14.2.152176	MDC_DIM_PERCENT
EtHal EtHal 2nd	152092	MDC_CONC_AWAY_HALOTH_ET	MDC	1.14.1.152092 1.14.2.152092	MDC_DIM_PERCENT
FiAA FiAA 2nd	152464	MDC_CONC_AWAY_AGENT_INSP	MDC	1.14.1.152464 1.14.2.152464	MDC_DIM_PERCENT
EtAA EtAA 2nd	152460	MDC_CONC_AWAY_AGENT_ET	MDC	1.14.1.152460 1.14.2.152460	MDC_DIM_PERCENT
Insp. MAC(Inspiration Mean Aveolar Concentration)	174	MNDRY_CONC_MAC_INSP	99MNDRY	1.14.1.174	MDC_DIM_DIMLESS
Exp. MAC(Expiratory Mean Aveolar Concentration)	175	MNDRY_CONC_MAC_EXP	99MNDRY	1.14.1.175	MDC_DIM_DIMLESS
MAC(Mean Aveolar Concentration)	119	MNDRY_CONC_MAC	99MNDRY	1.14.1.119	MDC_DIM_DIMLESS
ATMP	211	MNDRY_PRESS_BAROMETRIC	99MNDRY	1.14.1.211	MDC_DIM_MMHG
HALLev	152060	MDC_VENT_CONC_HALOTH	MDC	1.14.1.152060	MDC_DIM_MILLI_L
ENFLev	152056	MDC_VENT_CONC_ENFFL	MDC	1.14.1.152056	MDC_DIM_MILLI_L

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
ISOLev	152068	MDC_VENT_CONC_ISOFL	MDC	1.14.1.152068	MDC_DIM_MILLI_L
DESLev	152052	MDC_VENT_CONC_DESFL	MDC	1.14.1.152052	MDC_DIM_MILLI_L
SEVLev	152064	MDC_VENT_CONC_SEVOFL	MDC	1.14.1.152064	MDC_DIM_MILLI_L
VO2	152420	MDC_FLOW_O2_CONSUMP	MDC	1.14.1.150272	MDC_DIM_MILLI_L_PER_MIN
VCO2	151776	MDC_FLOW_CO2_PROD_RESP	MDC	1.14.1.151776	MDC_DIM_MILLI_L_PER_MIN
VO2/m2	207	MNDRY_FLOW_O2_CONSUMP_PER_M_SQ	99MNDRY	1.14.1.207	MDC_DIM_MILLI_L_PER_MIN_PER_M_SQ
VO2/KG	209	MNDRY_FLOW_O2_CONSUMP_PER_KG	99MNDRY	1.14.1.209	MNDRY_DIM_MILLI_L_PER_MIN_PER_KG
EE (Energy Expenditure)	228	MNDRY_RESP_EXPENDED_ENERGY	99MNDRY	1.14.1.228	MDC_DIM_KILO_CAL_PER_DAY
RQ	151828	MDC_QUO_RESP	MDC	1.14.1.151828	MDC_DIM_DIMLESS
PO2	152292	MDC_VENT_AWAY_O2	MDC	1.14.1.152292	MDC_DIM_KILO_PASCAL
PN2O	152288	MDC_VENT_N2O	MDC	1.14.1.152288	MDC_DIM_KILO_PASCAL
Pair(Air Supply Pressure)	216	MNDRY_PRESS_SUPPLY_AIR	99MNDRY	1.14.1.216	MDC_DIM_KILO_PASCAL
O2 cyl.	217	MNDRY_PRESS_CYLINDER_O2	99MNDRY	1.14.1.217	MDC_DIM_KILO_PASCAL
O2 cyl.2nd	218	MNDRY_PRESS_CYLINDER_O2_SECONDARY	99MNDRY	1.14.1.218	MDC_DIM_KILO_PASCAL
N2O cyl	220	MNDRY_PRESS_CYLINDER_N2O	99MNDRY	1.14.1.220	MDC_DIM_KILO_PASCAL
air cyl.	219	MNDRY_PRESS_CYLINDER_AIR	99MNDRY	1.14.1.219	MDC_DIM_KILO_PASCAL
FG(Freshgas Flow)	221	MNDRY_FLOW_FG	99MNDRY	1.14.1.221	MDC_DIM_MILLI_L_PER_MIN
O2 Flow	232	MNDRY_FLOW_O2	99MNDRY	1.14.1.232	MDC_DIM_L_PER_MIN
Air Flow	233	MNDRY_FLOW_AIR	99MNDRY	1.14.1.233	MDC_DIM_L_PER_MIN
N2O Flow	235	MNDRY_FLOW_N2O	99MNDRY	1.14.1.235	MDC_DIM_L_PER_MIN
O2 Flow Setting	20010	MNDRY_FLOW_O2_FG_SETTING	99MNDRY	1.14.1.20010	MDC_DIM_L_PER_MIN
Air Flow Setting	20012	MNDRY_FLOW_AIR_FG_SETTING	99MNDRY	1.14.1.20012	MDC_DIM_L_PER_MIN
N2O Flow Setting	20011	MNDRY_FLOW_N2O_FG_SETTING	99MNDRY	1.14.1.20011	MDC_DIM_L_PER_MIN

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Des Flow	236	MNDRY_FLOW_DES	99MNDRY	1.14.1.236	MDC_DIM_MILLI_L_PER_HR
Enf Flow	237	MNDRY_FLOW_ENF	99MNDRY	1.14.1.237	MDC_DIM_MILLI_L_PER_HR
Iso Flow	238	MNDRY_FLOW_ISO	99MNDRY	1.14.1.238	MDC_DIM_MILLI_L_PER_HR
Hal Flow	239	MNDRY_FLOW_HAL	99MNDRY	1.14.1.239	MDC_DIM_MILLI_L_PER_HR
Sev Flow	240	MNDRY_FLOW_SEV	99MNDRY	1.14.1.240	MDC_DIM_MILLI_L_PER_HR
BSA	188744	MDC_AREA_BODY_SURF_ACTUAL	MDC	1.14.1.188744	MDC_DIM_SQ_M
BIS	120	MNDRY_EEG_BISPECTRAL_INDEX	99MNDRY	1.14.1.120	MDC_DIM_DIMLESS
SQI	122	MNDRY_EEG_SIGNAL_QUALITY_INDEX	99MNDRY	1.14.1.122	MDC_DIM_PERCENT
SR	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	1.14.1.155024	MDC_DIM_PERCENT
EMG	153916	MDC_EMG_ELEC_POTL_MUSCL	MDC	1.14.1.153916	MDC_DIM_DECIBEL
SEF	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	1.14.1.153992	MDC_DIM_HZ
TP	154040	MDC_EEG_PWR_SPEC_TOT	MDC	1.14.1.154040	MDC_DIM_DECIBEL
BC	154028	MDC_EEG_NUM_SPK	MDC	1.14.1.154028	MDC_DIM_PER_MIN
SpO2	150456	MDC_PULS_OXIM_SAT_O2	MDC	1.14.1.150456	MDC_DIM_PERCENT
PR	149546	MDC_PULS_RATE_NON_INV	MDC	1.14.1.149546	MDC_DIM_BEAT_PER_MIN

Table 30 TcGas Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
tcpCO2	151756	MDC_CO2_TCUT	MDC	1.15.1.151756	MDC_DIM_MMHG
tcpO2	151760	MDC_O2_TCUT	MDC	1.15.1.151760	MDC_DIM_MMHG
Oxygen Saturation	150456	MDC_PULS_OXIM_SAT_O2	MDC	1.15.1.150456	MDC_DIM_PERCENT
Pulse Rate	149530	MDC_PULS_OXIM_PULS_RATE	MDC	1.15.1.149530	MDC_DIM_BEAT_PER_MIN
Power	215	MNDRY_POWER_TCUT	99MNDRY	1.15.1.215	MDC_DIM_MILLI_WATT
Temp	150344	MDC_TEMP	MDC	1.15.1.150344	MDC_DIM_DEGC

Table 31 +NMT Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
TOF-Ratio	199	MNDRY_NMT_TOF_RATIO	99MNDRY	1.16.1.199	MDC_DIM_PERCENT
TOF-Count	200	MNDRY_NMT_TOF_COUNT	99MNDRY	1.16.1.200	MDC_DIM_DIMLESS
PTC	206	MNDRY_NMT_POST_TETANIC_COUNT	99MNDRY	1.16.1.206	MDC_DIM_DIMLESS
Single	201	MNDRY_NMT_ST_RATIO	99MNDRY	1.16.1.1604	MDC_DIM_PERCENT
Tskin	150388	MDC_TEMP_SKIN	MDC	1.16.1.150388	MDC_DIM_FAHR
T1%	205	MNDRY_NMT_FIRST_TWITCH_RATIO	99MNDRY	1.16.1.205	MDC_DIM_PERCENT

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
T2%	333	MNDRY_NMT_SECOND_TWITCH_RATIO	99MNDRY	1.16.1.333	MDC_DIM_PERCENT
T3%	334	MNDRY_NMT_THIRD_TWITCH_RATIO	99MNDRY	1.16.1.334	MDC_DIM_PERCENT
T4%	335	MNDRY_NMT_FORTH_TWITCH_RATIO	99MNDRY	1.16.1.335	MDC_DIM_PERCENT

Table 32 NMT Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
TOF-Ratio	199	MNDRY_NMT_TOF_RATIO	99MNDRY	1.23.1.199	MDC_DIM_PERCENT
TOF-Count	200	MNDRY_NMT _TOF_COUNT	99MNDRY	1.23.1.200	MDC_DIM_DIMLESS
ST-Ratio	201	MNDRY_NMT_ST_RATIO	99MNDRY	1.23.1.201	MDC_DIM_PERCENT
ST-Count	202	MNDRY_NMT _ST_COUNT	99MNDRY	1.23.1.202	MDC_DIM_DIMLESS
DBS-Ratio	203	MNDRY_NMT_DBS_RATIO	99MNDRY	1.23.1.203	MDC_DIM_PERCENT
DBS-Count	204	MNDRY_NMT _DBS_COUNT	99MNDRY	1.23.1.204	MDC_DIM_DIMLESS
T1%	205	MNDRY_NMT_FIRST_TWITCH_RATIO	99MNDRY	1.23.1.205	MDC_DIM_PERCENT
T2%	333	MNDRY_NMT_SECOND_TWITCH_RATIO	99MNDRY	1.23.1.333	MDC_DIM_PERCENT
T3%	334	MNDRY_NMT_THIRD_TWITCH_RATIO	99MNDRY	1.23.1.334	MDC_DIM_PERCENT

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
T4%	335	MNDRY_NMT_FORTH_TWITCH_RATIO	99MNDRY	1.23.1.335	MDC_DIM_PERCENT
PTC	206	MNDRY_NMT_POST_TETANIC_COUNT	99MNDRY	1.23.1.206	MDC_DIM_DIMLESS

Table 33 EEG Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
SEF1, Channel 1	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	1.17.1. 153992	MDC_DIM_HZ
MF1, Channel 1	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	1.17.1.153984	MDC_DIM_HZ
PPF1, Channel 1	153988	MDC_EEG_FREQ_PWR_SPEC_CRTX_PEAK	MDC	1.17.1.153988	MDC_DIM_HZ
TP1, Channel 1	154040	MDC_EEG_PWR_SPEC_TOT	MDC	1.17.1.154040	MDC_DIM_DECIBEL
SR1, Channel 1	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	1.17.1.155024	MDC_DIM_PERCENT
EMG1, Channel 1	153916	MDC_EMG_ELEC_POTL_MUSCL	MDC	1.17.1.153916	MDC_DIM_DECIBEL
Delta1, Channel 1	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	1.17.1.154076	MDC_DIM_PERCENT
Theta1, Channel 1	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	1.17.1.154080	MDC_DIM_PERCENT
Alpha1, Channel 1	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	1.17.1.154068	MDC_DIM_PERCENT
Beta1, Channel 1	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	1.17.1.154072	MDC_DIM_PERCENT
SEF2, Channel 2	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	1.17.2. 153992	MDC_DIM_HZ
MF2, Channel 2	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	1.17.2.153984	MDC_DIM_HZ
PPF2, Channel 2	153988	MDC_EEG_FREQ_PWR_SPEC_CRTX_PEAK	MDC	1.17.2.153988	MDC_DIM_HZ
TP2, Channel 2	154040	MDC_EEG_PWR_SPEC_TOT	MDC	1.17.2.154040	MDC_DIM_DECIBEL
SR2, Channel 2	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	1.17.2.155024	MDC_DIM_PERCENT
EMG2, Channel 2	153916	MDC_EMG_ELEC_POTL_MUSCL	MDC	1.17.2.153916	MDC_DIM_DECIBEL

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Delta2, Channel 2	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	1.17.2.154076	MDC_DIM_PERCENT
Theta2, Channel 2	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	1.17.2.154080	MDC_DIM_PERCENT
Alpha2, Channel 2	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	1.17.2.154068	MDC_DIM_PERCENT
Beta2, Channel 2	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	1.17.2.154072	MDC_DIM_PERCENT
SEF3, Channel 3	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	1.17.3. 153992	MDC_DIM_HZ
MF3, Channel 3	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	1.17.3.153984	MDC_DIM_HZ
PPF3, Channel 3	153988	MDC_EEG_FREQ_PWR_SPEC_CRTX_PEAK	MDC	1.17.3.153988	MDC_DIM_HZ
TP3, Channel 3	154040	MDC_EEG_PWR_SPEC_TOT	MDC	1.17.3.154040	MDC_DIM_DECIBEL
SR3, Channel 3	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	1.17.3.155024	MDC_DIM_PERCENT
EMG3, Channel 3	153916	MDC_EMG_ELEC_POTL_MUSCL	MDC	1.17.3.153916	MDC_DIM_DECIBEL
Delta3, Channel 3	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	1.17.3.154076	MDC_DIM_PERCENT
Theta3, Channel 3	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	1.17.3.154080	MDC_DIM_PERCENT
Alpha3, Channel 3	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	1.17.3.154068	MDC_DIM_PERCENT
Beta3, Channel 3	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	1.17.3.154072	MDC_DIM_PERCENT
SEF4, Channel 4	153992	MDC_EEG_FREQ_PWR_SPEC_CRTX_SPECTRAL_EDGE	MDC	1.17.4. 153992	MDC_DIM_HZ
MF4, Channel 4	153984	MDC_EEG_FREQ_PWR_SPEC_CRTX_MEDIAN	MDC	1.17.4.153984	MDC_DIM_HZ
PPF4, Channel 4	153988	MDC_EEG_FREQ_PWR_SPEC_CRTX_PEAK	MDC	1.17.4.153988	MDC_DIM_HZ
TP4, Channel 4	154040	MDC_EEG_PWR_SPEC_TOT	MDC	1.17.4.154040	MDC_DIM_DECIBEL
SR4, Channel 4	155024	MDC_EEG_PAROX_CRTX_BURST_SUPPRN	MDC	1.17.4.155024	MDC_DIM_PERCENT
EMG4, Channel 4	153916	MDC_EMG_ELEC_POTL_MUSCL	MDC	1.17.4.153916	MDC_DIM_DECIBEL
Delta4, Channel 4	154076	MDC_EEG_PWR_SPEC_DELTA_REL	MDC	1.17.4.154076	MDC_DIM_PERCENT
Theta4, Channel 4	154080	MDC_EEG_PWR_SPEC_THETA_REL	MDC	1.17.4.154080	MDC_DIM_PERCENT
Alpha4, Channel 4	154068	MDC_EEG_PWR_SPEC_ALPHA_REL	MDC	1.17.4.154068	MDC_DIM_PERCENT
Beta4, Channel 4	154072	MDC_EEG_PWR_SPEC_BETA_REL	MDC	1.17.4.154072	MDC_DIM_PERCENT

Table 34 PPV Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
PPV	NM	153	MNDRY_PRESS_PULSE_VARIATION	99MNDRY	1.18.1.153	MDC_DIM_PERCENT

Table 35 Regional Oxymetry Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2	OBX-20.2
rSO_2 1	116	MNDRY_SAT_O2_REG	99MNDRY	1.24.1.116	MDC_DIM_PERCENT	*User defined label*
rSO_2 Baseline 1	117	MNDRY_SAT_O2_REG_BASE	99MNDRY	1.24.1.117	MDC_DIM_PERCENT	*User defined label*
rSO_2 AUC 1	118	MNDRY_SAT_O2_REG_AUC	99MNDRY	1.24.1.118	MNDRY_DIM_MIN_PERCENT	*User defined label*
rSO_2 Change % 1	336	MNDRY_SAT_O2_REG_CNG	99MNDRY	1.24.1.336	MDC_DIM_PERCENT	*User defined label*
rSO_2 AVG 1	337	MNDRY_SAT_O2_REG_AVG	99MNDRY	1.24.1.337	MDC_DIM_PERCENT	*User defined label*
rSO_2 SSI 1	338	MNDRY_SAT_O2_REG_SSI	99MNDRY	1.24.1.338	MDC_DIM_PERCENT	*User defined label*
rSO_2 2	116	MNDRY_SAT_O2_REG	99MNDRY	1.24.2.116	MDC_DIM_PERCENT	*User defined label*
rSO_2 Baseline 2	117	MNDRY_SAT_O2_REG_BASE	99MNDRY	1.24.2.117	MDC_DIM_PERCENT	*User defined label*
rSO_2 AUC 2	118	MNDRY_SAT_O2_REG_AUC	99MNDRY	1.24.2.118	MNDRY_DIM_MIN_PERCENT	*User defined label*
rSO_2 Change % 2	336	MNDRY_SAT_O2_REG_CNG	99MNDRY	1.24.2.336	MDC_DIM_PERCENT	*User defined label*
rSO_2 AVG 2	337	MNDRY_SAT_O2_REG_AVG	99MNDRY	1.24.2.337	MDC_DIM_PERCENT	*User defined label*
rSO_2 SSI 2	338	MNDRY_SAT_O2_REG_SSI	99MNDRY	1.24.2.338	MDC_DIM_PERCENT	*User defined label*
rSO_2 3	116	MNDRY_SAT_O2_REG	99MNDRY	1.24.3.116	MDC_DIM_PERCENT	*User defined label*
rSO_2 Baseline 3	117	MNDRY_SAT_O2_REG_BASE	99MNDRY	1.24.3.117	MDC_DIM_PERCENT	*User defined label*

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2	OBX-20.2
rSO_2 AUC 3	118	MNDRY_SAT_O2_REG_AUC	99MNDRY	1.24.3.118	MNDRY_DIM_MIN_PERCENT	*User defined label*
rSO_2 Change % 3	336	MNDRY_SAT_O2_REG_CNG	99MNDRY	1.24.3.336	MDC_DIM_PERCENT	*User defined label*
rSO_2 AVG 3	337	MNDRY_SAT_O2_REG_AVG	99MNDRY	1.24.3.337	MDC_DIM_PERCENT	*User defined label*
rSO_2 SSI 3	338	MNDRY_SAT_O2_REG_SSI	99MNDRY	1.24.3.338	MDC_DIM_PERCENT	*User defined label*
rSO_2 4	116	MNDRY_SAT_O2_REG	99MNDRY	1.24.4.116	MDC_DIM_PERCENT	*User defined label*
rSO_2 Baseline 4	117	MNDRY_SAT_O2_REG_BASE	99MNDRY	1.24.4.117	MDC_DIM_PERCENT	*User defined label*
rSO_2 AUC 4	118	MNDRY_SAT_O2_REG_AUC	99MNDRY	1.24.4.118	MNDRY_DIM_MIN_PERCENT	*User defined label*
rSO_2 Change % 4	336	MNDRY_SAT_O2_REG_CNG	99MNDRY	1.24.4.336	MDC_DIM_PERCENT	*User defined label*
rSO_2 AVG 4	337	MNDRY_SAT_O2_REG_AVG	99MNDRY	1.24.4.337	MDC_DIM_PERCENT	*User defined label*
rSO_2 SSI 4	338	MNDRY_SAT_O2_REG_SSI	99MNDRY	1.24.4.338	MDC_DIM_PERCENT	*User defined label*

Table 36 VCO2 Type Field Codes

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
EE	152812	MDC_RESP_EXPENDED_ENERGY	MDC	1.32.1.152812	MDC_DIM_KILO_CAL_PER_DAY
MVALV	153240	MDC_VENT_VOL_MINUTE_LUNG_ALV	MDC	1.32.1.153240	MDC_DIM_L_PER_MIN
MVCO2	151776	MDC_FLOW_CO2_PROD_RESP	MDC	1.32.1.151776	MDC_DIM_MILLI_L_PER_MIN
MVO2	152420	MDC_FLOW_O2_CONSUMP	MDC	1.32.1.152420	MDC_DIM_MILLI_L_PER_MIN
RQ	151828	MDC_QUO_RESP	MDC	1.32.1.151828	MDC_DIM_DIMLESS
SLOPECO2	153320	MDC_CONC_AWAY_CO2_EXP_PLATEAU_ALV_SLOPE	MDC	1.32.1.153320	MDC_DIM_VOL_PERCENT_PER_L
VCO2	382	MNDRY_VOL_CO2_PROD_RESP_BREATH	99MNDRY	1.32.1.382	MDC_DIM_MILLI_L
VDALV	383	MNDRY_VOL_ALV_DEADSP	99MNDRY	1.32.1.383	MDC_DIM_MILLI_L
VDALV_VT	384	MNDRY_RATIO_ALV_DEADSP_TIDAL	99MNDRY	1.32.1.384	MDC_DIM_PERCENT

Observation Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
VDAW	385	MNDRY_VOL_ANATOM_DEADSP	99MNDRY	1.32.1.385	MDC_DIM_MILLI_L
VDAW_VT	386	MNDRY_RATIO_ANATOM_DEADSP_TIDAL	99MNDRY	1.32.1.386	MDC_DIM_PERCENT
VDPHY	387	MNDRY_VOL_PHYSIO_DEADSP	99MNDRY	1.32.1.387	MDC_DIM_MILLI_L
VD_VT	388	MNDRY_RATIO_PHYSIO_DEADSP_TIDAL	99MNDRY	1.32.1.388	MDC_DIM_PERCENT
VO2	389	MNDRY_VOL_O2_CONSUMP_BREATH	99MNDRY	1.32.1.389	MDC_DIM_MILLI_L
VTALV	390	MNDRY_VOL_ALV_TIDAL	99MNDRY	1.32.1.390	MDC_DIM_MILLI_L
FECO2	391	MNDRY_CONC_AWAY_MIXED_CO2_EXP	99MNDRY	1.32.1.391	MDC_DIM_PERCENT

D.2 Supported Waveform

Table 37 Waveform Type Field Codes

Waveform Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	Waveform Resolution OBX-6.2
ECG Lead I	131329	MDC_ECG_ELEC_POTL_I	MDC	1.7.6.131329	MDC_DIM_MILLI_VOLT
ECG Lead II	131330	MDC_ECG_ELEC_POTL_II	MDC	1.7.6.131330	MDC_DIM_MILLI_VOLT
ECG Lead III	131389	MDC_ECG_ELEC_POTL_III	MDC	1.7.6.131389	MDC_DIM_MILLI_VOLT
ECG Lead aVR	131390	MDC_ECG_ELEC_POTL_AVR	MDC	1.7.6.131390	MDC_DIM_MILLI_VOLT
ECG Lead aVL	131391	MDC_ECG_ELEC_POTL_AVL	MDC	1.7.6.131391	MDC_DIM_MILLI_VOLT

Waveform Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	Waveform Resolution OBX-6.2
ECG Lead aVF	131392	MDC_ECG_ELEC_POTL_AVF	MDC	1.7.6.131392	MDC_DIM_MILLI_VOLT
ECG Lead V1	131331	MDC_ECG_ELEC_POTL_V1	MDC	1.7.6.131331	MDC_DIM_MILLI_VOLT
ECG Lead V2	131332	MDC_ECG_ELEC_POTL_V2	MDC	1.7.6.131332	MDC_DIM_MILLI_VOLT
ECG Lead V3	131333	MDC_ECG_ELEC_POTL_V3	MDC	1.7.6.131333	MDC_DIM_MILLI_VOLT
ECG Lead V4	131334	MDC_ECG_ELEC_POTL_V4	MDC	1.7.6.131334	MDC_DIM_MILLI_VOLT
ECG Lead V5	131335	MDC_ECG_ELEC_POTL_V5	MDC	1.7.6.131335	MDC_DIM_MILLI_VOLT
ECG Lead V6	131336	MDC_ECG_ELEC_POTL_V6	MDC	1.7.6.131336	MDC_DIM_MILLI_VOLT
ECG Lead V	131395	MDC_ECG_ELEC_POTL_V	MDC	1.7.6.131395	MDC_DIM_MILLI_VOLT
ECG Lead VB	377	MNDRY_ECG_ELEC_POTL_VB	99MNDRY	1.7.6.377	MDC_DIM_MILLI_VOLT
Pleth1	150452	MDC_PULS_OXIM_PLETH	MDC	1.3.1.150452	MDC_DIM_DIMLESS
Pleth2	150452	MDC_PULS_OXIM_PLETH	MDC	1.3.2.150452	MDC_DIM_DIMLESS
Transthoracic Impedance	151780	MDC_IMPED_TTHOR	MDC	1.7.1.151780	MDC_DIM_DIMLESS
Arterial Blood Pressure1	150032	MDC_PRESS_BLD_ART	MDC	1.1.1.150032	MDC_DIM_MMHG
Arterial Blood Pressure2	150032	MDC_PRESS_BLD_ART	MDC	1.1.2.150032	MDC_DIM_MMHG
Pulmonary Arterial Blood Pressure	150044	MDC_PRESS_BLD_ART_PULM	MDC	1.1.1.150044	MDC_DIM_MMHG
Central Venous Blood Pressure	150084	MDC_PRESS_BLD_VEN_CENT	MDC	1.1.1.150084	MDC_DIM_MMHG
Right Atria Blood Pressure	150068	MDC_PRESS_BLD_ATR_RIGHT	MDC	1.1.1.150068	MDC_DIM_MMHG
Left Atria Blood Pressure	150064	MDC_PRESS_BLD_ATR_LEFT	MDC	1.1.1.150064	MDC_DIM_MMHG
Intra Cranial Pressure	153608	MDC_PRESS_INTRA_CRAN	MDC	1.1.1.153608	MDC_DIM_MMHG
Invasive Blood Pressure1	150016	MDC_PRESS_BLD	MDC	1.1.1.150016	MDC_DIM_MMHG
Invasive Blood Pressure2	150016	MDC_PRESS_BLD	MDC	1.1.2.150016	MDC_DIM_MMHG
Invasive Blood Pressure3	150016	MDC_PRESS_BLD	MDC	1.1.3.150016	MDC_DIM_MMHG

Waveform Type	**OBX-3.1**	**OBX-3.2**	**OBX-3.3**	**OBX-4**	**Waveform Resolution** **OBX-6.2**
Invasive Blood Pressure4	150016	MDC_PRESS_BLD	MDC	1.1.4.150016	MDC_DIM_MMHG
Invasive Blood Pressure5	150016	MDC_PRESS_BLD	MDC	1.1.5.150016	MDC_DIM_MMHG
Invasive Blood Pressure6	150016	MDC_PRESS_BLD	MDC	1.1.6.150016	MDC_DIM_MMHG
Invasive Blood Pressure7	150016	MDC_PRESS_BLD	MDC	1.1.7.150016	MDC_DIM_MMHG
Invasive Blood Pressure8	150016	MDC_PRESS_BLD	MDC	1.1.8.150016	MDC_DIM_MMHG
Aortic Blood Pressure	150028	MDC_PRESS_BLD_AORT	MDC	1.1.1.150028	MDC_DIM_MMHG
Umbilical Arterial Blood Pressure	150056	MDC_PRESS_BLD_ART_UMB	MDC	1.1.1.150056	MDC_DIM_MMHG
Brachial Arterial Blood Pressure	150680	MDC_PRESS_BLD_ART_BRACHIAL	MDC	1.1.1.150680	MDC_DIM_MMHG
Femoral Arterial Blood Pressure	150648	MDC_PRESS_BLD_ART_FEMORAL	MDC	1.1.1.150648	MDC_DIM_MMHG
Umbilical Venous Blood Pressure	150088	MDC_PRESS_BLD_VEN_UMB	MDC	1.1.1.150088	MDC_DIM_MMHG
Left Ventricle Blood Pressure	150100	MDC_PRESS_BLD_VENT_LEFT	MDC	1.1.1.150100	MDC_DIM_MMHG
Arterial Blood Pressure from PiCCO	150032	MDC_PRESS_BLD_ART	MDC	1.1.11.150032	MDC_DIM_MMHG
Central Venous Blood Pressure from PiCCO	150084	MDC_PRESS_BLD_VEN_CENT	MDC	1.1.12.150084	MDC_DIM_MMHG
Intra-abdominal Pressure	284	MNDRY_PRESS_INTRA_ABDOM	99MNDRY	1.1.1.284	MDC_DIM_MMHG
CO2 CO2, Airway	151700	MDC_CONC_AWAY_CO2	MDC	1.8.1.151700	MDC_DIM_MMHG
CO2 O2, Airway	151908	MDC_CONC_AWAY_O2	MDC	1.8.1.151908	MDC_DIM_PERCENT
GAS CO2, Airway	151700	MDC_CONC_AWAY_CO2	MDC	1.9.1.151700	MDC_DIM_MMHG
GAS O2, Airway	151908	MDC_CONC_AWAY_O2	MDC	1.9.1.151908	MDC_DIM_PERCENT
GAS N2O, Airway	152048	MDC_CONC_AWAY_N2O	MDC	1.9.1.152048	MDC_DIM_PERCENT
Primary Agent, Airway	152456	MDC_CONC_AWAY_AGENT	MDC	1.9.1.152456	MDC_DIM_PERCENT
Sencondary Agent, Airway	152456	MDC_CONC_AWAY_AGENT	MDC	1.9.2.152456	MDC_DIM_PERCENT

Waveform Type	**OBX-3.1**	**OBX-3.2**	**OBX-3.3**	**OBX-4**	**Waveform Resolution** **OBX-6.2**
Halothane, Airway	152032	MDC_CONC_AWAY_HALOTH	MDC	1.9.1.152032	MDC_DIM_PERCENT
Enflurane, Airway	152028	MDC_CONC_AWAY_ENFL	MDC	1.9.1.152028	MDC_DIM_PERCENT
Isoflurane, Airway	152040	MDC_CONC_AWAY_ISOFL	MDC	1.9.1.152040	MDC_DIM_PERCENT
Sevoflurane, Airway	152036	MDC_CONC_AWAY_SEVOFL	MDC	1.9.1.152036	MDC_DIM_PERCENT
Desflurane, Airway	152024	MDC_CONC_AWAY_DESFL	MDC	1.9.1.152024	MDC_DIM_PERCENT
BIS EEG	286	MNDRY_EEG_ELEC_POTL_BIS	99MNDRY	1.12.1.286	MDC_DIM_MICRO_VOLT
BIS EEG, Left Temporal	287	MNDRY_EEG_ELEC_POTL_BIS_TEMPR	99MNDRY	1.12.1.287	MDC_DIM_MICRO_VOLT
BIS EEG, Left Eye	288	MNDRY_EEG_ELEC_POTL_BIS_EYE	99MNDRY	1.12.1.288	MDC_DIM_MICRO_VOLT
BIS EEG, Right Temporal	287	MNDRY_EEG_ELEC_POTL_BIS_TEMPR	99MNDRY	1.12.1.287	MDC_DIM_MICRO_VOLT
BIS EEG, Right Eye	288	MNDRY_EEG_ELEC_POTL_BIS_EYE	99MNDRY	1.12.1.288	MDC_DIM_MICRO_VOLT
Airway Pressure	151792	MDC_PRESS_AWAY	MDC	1.11.1.151792	MDC_DIM_CM_H2O
Airway Flow	151764	MDC_FLOW_AWAY	MDC	1.11.2.151764	MDC_DIM_L_PER_MIN
Airway Volume	152708	MDC_VOL_AWAY	MDC	1.11.3.152708	MDC_DIM_MILLI_L
Impedance Cardiography Impedance	290	MNDRY_ICG_IMP	99MNDRY	1.6.3.290	MDC_DIM_DIMLESS
EEG1	153900	MDC_EEG_ELEC_POTL_CRTX	MDC	1.17.1.153900	MDC_DIM_MICRO_VOLT
EEG2	153900	MDC_EEG_ELEC_POTL_CRTX	MDC	1.17.2.153900	MDC_DIM_MICRO_VOLT
EEG3	153900	MDC_EEG_ELEC_POTL_CRTX	MDC	1.17.3.153900	MDC_DIM_MICRO_VOLT
EEG4	153900	MDC_EEG_ELEC_POTL_CRTX	MDC	1.17.4.153900	MDC_DIM_MICRO_VOLT
Airway Pressure	151792	MDC_PRESS_AWAY	MDC	1.11.1.151792	MDC_DIM_CM_H2O
Airway Flow	151764	MDC_FLOW_AWAY	MDC	1.11.2.151764	MDC_DIM_L_PER_MIN

Waveform Type	**OBX-3.1**	**OBX-3.2**	**OBX-3.3**	**OBX-4**	**Waveform Resolution** **OBX-6.2**
Airway Volume	152708	MDC_VOL_AWAY	MDC	1.11.3.152708	MDC_DIM_MILLI_L
ANES AA	152456	MDC_CONC_AWAY_AGENT	MDC	1.9.1.152456	MDC_DIM_PERCENT
ANES AA2	152456	MDC_CONC_AWAY_AGENT	MDC	1.9.2.152456	MDC_DIM_PERCENT
ANES BIS	286	MNDRY_EEG_ELEC_POTL_BIS	99MNDRY	1.12.2.286	MDC_DIM_DIMLESS
ANES CO2	151700	MDC_CONC_AWAY_CO2	MDC	1.8.1.151700	MDC_DIM_MMHG
ANES DES	152024	MDC_CONC_AWAY_DESFL	MDC	1.9.1.152024	MDC_DIM_PERCENT
ANES ENF	152028	MDC_CONC_AWAY_ENFL	MDC	1.9.1.152028	MDC_DIM_PERCENT
ANES HAL	152032	MDC_CONC_AWAY_HALOTH	MDC	1.9.1.152032	MDC_DIM_PERCENT
ANES ISO	152040	MDC_CONC_AWAY_ISOFL	MDC	1.9.1.152040	MDC_DIM_PERCENT
ANES N2O	152048	MDC_CONC_AWAY_N2O	MDC	1.9.1.152048	MDC_DIM_PERCENT
ANES O2	151908	MDC_CONC_AWAY_O2	MDC	1.9.1.151908	MDC_DIM_MMHG
ANES SEV	152036	MDC_CONC_AWAY_SEVOFL	MDC	1.9.1.152036	MDC_DIM_PERCENT
ANES SPO2	150452	MDC_PULS_OXIM_PLETH	MDC	1.3.3.150452	MDC_DIM_PERCENT
VENT CO2	151700	MDC_CONC_AWAY_CO2	MDC	1.8.1.151700	MDC_DIM_MMHG
VENT Flow	151764	MDC_FLOW_AWAY	MDC	1.11.2.151764	MDC_DIM_L_PER_MIN
VENT Paw	151792	MDC_PRESS_AWAY	MDC	1.11.1.151792	MDC_DIM_CM_H2O
VENT SPO2	150452	MDC_PULS_OXIM_PLETH	MDC	1.3.3.150452	MDC_DIM_PERCENT
VENT Volume	152708	MDC_VOL_AWAY	MDC	1.11.3.152708	MDC_DIM_MILLI_L

D.3 Supported Alert Event

Table 38 Physiological Alert Event Type Field Codes

Alarm	OBX-x.1	OBX-x.2	OBX-x.3	OBX-4	Comment
High ***	196648	MDC_EVT_HI_VAL_GT_LIM	MDC	Based on parameter	*** indicates patient's physiological parameters which monitoring devices support general physiological alarm, refer to the table "High/Low Alarm parameters definition".
Low ***	196670	MDC_EVT_LO_VAL_LT_LIM	MDC	Based on parameter	*** indicates patient's physiological parameters which monitoring devices support general physiological alarm, refer to the table"High/Low Alarm parameters definition".

*** Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC	Based on parameter	***Indicates a physiological parameter has exceeded a set high or low threshold. Facet 2 will contain the parameter information. See “High/Low Alarm parameters definition” table for parameters this applies to.
Apnea	199680	MDC_EVT_APNEA	MDC	1.7.1.199680	
ST Single	30008	MNDRY_EVT_ECG_ST_SINGLE	99MNDRY	1.7.3.30008	
ST Dual	30009	MNDRY_EVT_ECG_ST_DUAL	99MNDRY	1.7.3.30009	
Asystole	199684	MDC_EVT_ECG_ASYSTOLE	MDC	1.7.2.199684	
Bigeminy	199690	MDC_EVT_ECG_BIGEM	MDC	1.7.2.199690	
Bradycardia	199692	MDC_EVT_ECG_SINUS_BRADY	MDC	1.7.2.199692	
Couplet	199880	MDC_EVT_ECG_RHY_CPLT	MDC	1.7.2.199880	
Irregular Heart Rate	199766	MDC_EVT_ECG_CARD_BEAT_RATE_IRREG	MDC	1.7.2.199766	
Pause	199716	MDC_EVT_ECG_PAUSE	MDC	1.7.2.199716	
Run (VT > 2)	199820	MDC_EVT_ECG_V_P_C_RUN	MDC	1.7.2.199820	
Trigeminy	199844	MDC_EVT_ECG_V_TRIGEM	MDC	1.7.2.199844	
V-Fib	199806	MDC_EVT_ECG_V_FIB	MDC	1.7.2.199806	
V-Rhythm	199828	MDC_EVT_ECG_V_RHY	MDC	1.7.2.199828	
V-Tach	199832	MDC_EVT_ECG_V_TACHY	MDC	1.7.2.199832	
V-Fib/V-Tach	30010	MNDRY_EVT_ECG_VFIB_VTAC	99MNDRY	1.7.2.30010	
Vent. Brady	30011	MNDRY_EVT_ECG_VENT_BRADY	99MNDRY	1.7.2.30011	
Extreme Tachycardia	199730	MDC_EVT_ECG_TACHY_EXTREME	MDC	1.7.2.199730	
Extreme Bradycardia	199694	MDC_EVT_ECG_BRADY_EXTREME	MDC	1.7.2.199694	

Single PVC	199812	MDC_EVT_ECG_V_P_C	MDC	1.7.2.199812	
Tachycardia	199870	MDC_EVT_ECG_SINUS_TACHY	MDC	1.7.2.199870	
R on T	199814	MDC_EVT_ECG_V_P_C_RonT	MDC	1.7.2.199814	
Multifocal PVCs	199816	MDC_EVT_ECG_V_P_C_MULTIFORM	MDC	1.7.2.199816	
Miss Beat	199686	MDC_EVT_ECG_BEAT_MISSED	MDC	1.7.2.199686	
Pacer Not Paced	199790	MDC_EVT_ECG_PACER_NOT_PACING	MDC	1.7.5.199790	
Pacer Not Captured	199710	MDC_EVT_ECG_PACING_NON_CAPT	MDC	1.7.5.199710	
Non-sustained V-Tach	30012	MNDRY_EVT_ECG_NONSUS_VTAC	99MNDRY	1.7.2.30012	
ECG Lost	30126	MNDRY_EVT_ECG_LOST	99MNDRY	1.7.0.30126	
No Heart Rate	30106	MNDRY_EVT_NO_HEART_RATE	99MNDRY	1.7.0.30106	
Atrial Fibrillation	30107	MNDRY_EVT_ECG_AFIB	99MNDRY	1.7.2.30107	
SpO2 Desat	199854	MDC_EVT_DESAT	MDC	1.3.1.150456	
SpO2B Desat	199854	MDC_EVT_DESAT	MDC	1.3.2.150456	
RSO2 CH1 Change from Baseline > 20%	30109	MNDRY_EVT_RSO2_CHANGE_LOW	99MNDRY	1.24.1.336	rSO2 Change % 1
RSO2 CH2 Change from Baseline > 20%	30109	MNDRY_EVT_RSO2_CHANGE_LOW	99MNDRY	1.24.2.336	rSO2 Change % 2
RSO2-2 CH1 Change from Baseline > 20%	30109	MNDRY_EVT_RSO2_CHANGE_LOW	99MNDRY	1.24.3.336	rSO2 Change % 3
RSO2-2 CH2 Change from Baseline > 20%	30109	MNDRY_EVT_RSO2_CHANGE_LOW	99MNDRY	1.24.4.336	rSO2 Change % 4
Apnea, Impedance Respiration	199680	MDC_EVT_APNEA	MDC	1.7.1.199680	
Apnea, Gas(CO_2)	199680	MDC_EVT_APNEA	MDC	1.8.1.199680	
MAC >= 3	30103	MNDRY_EVT_MAXMAC_MORE_3	99MNDRY	1.9.1.119	MAC
FiO2 Shortage	30104	MNDRY_EVT_FIO2_SHORTAGE	99MNDRY	1.9.1.152196	FiO2

FiO2 Too Low	30108	MNDRY_EVT_FIO2_TOO_LOW	99MNDRY	1.9.1.152196	FiO2
Loss of PEEP	30014	MNDRY_EVT_PEEP_LOSS	99MNDRY	1.13.0.30014	PEEP
Apnea, RM	199680	MDC_EVT_APNEA	MDC	1.11.0.199680	
Volume inconsistent	199824	MDC_EVT_RESP_VOL_BREATHING_IRREG	MDC	1.13.0.199824	VT
ASB > 4s	199886	MDC_EVT_RESP_BREATHING_SPONT_ASSIST_PSW	MDC	1.13.0.199886	ftot
ASB > 1.5s	199886	MDC_EVT_RESP_BREATHING_SPONT_ASSIST_PSW	MDC	1.13.0.199886	ftot
Sustained HBline	30017	MNDRY_EVT_BLINE_SUSTAINTED_HI	99MNDRY	1.13.0.30017	
Pressure Apnea	199680	MDC_EVT_APNEA	MDC	1.13.1.199680	ftot
Apnea, CO_2	199680	MDC_EVT_APNEA	MDC	1.8.1.199680	RRCO2
No Pulse	30023	MNDRY_EVT_NO_PLUSE	99MNDRY	1.0.0.30023	No Pulse found
Respiration CVA Present	199904	MDC_EVT_ERR_EQU_HR_AND_RR	MDC	1.7.1.199904	
Mixed Gas/Agent	30128	MNDRY_EVT_MIX_GAS	99MNDRY	1.9.0.30128	
NMT Block Recovery	30756	MNDRY_EVT_NMT_BLOCK_RECOVERY	99MNDRY	1.23.0.30756	
+NMT Block Recovery	30756	MNDRY_EVT_NMT_BLOCK_RECOVERY	99MNDRY	1.16.0.30756	
Apnea, Anesthesia	199680	MDC_EVT_APNEA	MDC	1.13.0.199680	
ANES Apnea > 2min	30018	MNDRY_EVT_VENT_RESP_APNEA_2_MIN	99MNDRY	1.14.0.30018	
ANES Pressure Apnea	199680	MDC_EVT_APNEA	MDC	1.14.0.199680	
ANES High Paw Sustained	30019	MNDRY_EVT_PRESS_AWAY_SUSTAINTED_HI	99MNDRY	1.14.0.30019	
ANES Pressure Limiting	30111	MNDRY_EVT_PRESSURE_LIMITING	99MNDRY	1.14.0.30111	

ANES Sub-Atmospheric Paw, Negative Pressure	30020	MNDRY_EVT_PRESS_AWAY_PSA	99MNDRY	1.14.0.30020	
ANES Pressure Limit	30021	MNDRY_EVT_PRESS_AWAY_PLIMIT	99MNDRY	1.14.0.30021	
ANES Continuous Airway Pressure	30022	MNDRY_EVT_CONT_PRES_15_SEC	99MNDRY	1.14.0.30022	PEEP s
ANES Volume Apnea	199680	MDC_EVT_APNEA	MDC	1.14.0.199680	
ANES Apnea, CO_2	199680	MDC_EVT_APNEA	MDC	1.14.0.199680	
ANES No Pulse, SpO_2	30023	MNDRY_EVT_NO_PLUSE	99MNDRY	1.14.0.30023	
VENT Apnea	199680	MDC_EVT_APNEA	MDC	1.13.0.199680	
VENT Apnea Ventilation	30035	MNDRY_EVT_VENT_APNEA_VENT	99MNDRY	1.13.0.30035	Apnea Ventilation Started
VENT PLimit Reached	30036	MNDRY_EVT_VENT_PLIMIT_REACHED	99MNDRY	1.13.0.30036	
VENT Volume inconsistent	199824	MDC_EVT_RESP_VOL_BREATHING_IRREG	MDC	1.13.0.199824	
VENT AW Temp High	197112	MDC_EVT_VENT_TEMP_AWAY_HI	MDC	1.13.0.197112	
VENT ASB 4 Sec	199886	MDC_EVT_RESP_BREATHING_SPONT_ASSIST_PSW	MDC	1.13.0.199886	
VENT ASB > 1.5 Sec	199886	MDC_EVT_RESP_BREATHING_SPONT_ASSIST_PSW	MDC	1.13.0.199886	
VENT PPS-TI > 1.5Sec	30015	MNDRY_EVT_PPS_TI_DIFF	99MNDRY	1.13.0.30015	
VENT ASB TINSP (ASB > Tinsp)	30016	MNDRY_EVT_RESP_BREATHING_SPONT_ASSIST_TINSP	99MNDRY	1.13.0.30016	
VENT No Pulse, SpO_2	30023	MNDRY_EVT_NO_PLUSE	99MNDRY	1.13.0.30023	
VENT High Paw Sustained	30019	MNDRY_EVT_PRESS_AWAY_SUSTAINTED_HI	99MNDRY	1.13.0.30019	
VENT Pressure Sustained	30111	MNDRY_EVT_PRESSURE_LIMITING	99MNDRY	1.13.0.30111	

VENT Sub-Atmospheric Paw, Negative Pressure	30020	MNDRY_EVT_PRESS_AWAY_PSA	99MNDRY	1.13.0.30020	
VENT Pmax Reached	30038	MNDRY_EVT_VENT_PMAX_REACHED	99MNDRY	1.13.0.30038	
VENT Pinsp Not Achieved	30039	MNDRY_EVT_VENT_PINSPIRED_NOT_ACHIEVED	99MNDRY	1.13.0.30039	
VENT PEEP Not Achieved	30037	MNDRY_EVT_VENT_PEEP_NOT_ACHIEVED	99MNDRY	1.13.0.30037	
VENT No Pressure PEEP/CPAP	30040	MNDRY_EVT_VENT_NO_PRESSURE_PEEP_CPAP	99MNDRY	1.13.0.30040	
VENT VT Not Achieved	30041	MNDRY_EVT_VENT_VT_NOT_ACHIEVED	99MNDRY	1.13.0.30041	
VENT Volume Apnea	199680	MDC_EVT_APNEA	MDC	1.13.0.199680	
VENT Volume Apnea > 2min	30018	MNDRY_EVT_VENT_RESP_APNEA_2_MIN	99MNDRY	1.13.0.30018	
VENT Circuit O2 High	30049	MNDRY_EVT_VENT_CIRCUIT_O2_HI	99MNDRY	1.13.0.30049	
VENT Circuit O2 Low	30050	MNDRY_EVT_VENT_CIRCUIT_O2_LO	99MNDRY	1.13.0.30050	
VENT CO2 Apnea	199680	MDC_EVT_APNEA	MDC	1.13.0.199680	
VENT Paux too High	30051	MNDRY_EVT_VENT_PAUX_TOO_HI	99MNDRY	1.13.0.30051	
VENT Base Flow too High	30052	MNDRY_EVT_VENT_BASEFLOW_TOO_HI	99MNDRY	1.13.0.30052	
VENT Loss of PEEP	30014	MNDRY_EVT_VENT_LOSS_OF_PEEP	99MNDRY	1.13.0.30014	
VENT Low Baseline	196670	MDC_EVT_LO_VAL_LT_LIM	MDC	1.13.0.196670	
VENT High Baseline	196648	MDC_EVT_HI_VAL_GT_LIM	MDC	1.13.0.196648	
+TWSX TOF Out Of Limit	30043	MNDRY_EVT_TWSX_TOF_OUTOF_LIMIT	99MNDRY	1.16.0.30043	Skelaxin monitor
Unknown Phys Alarm, ECG	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.7.0.30443	
Unknown Phys Alarm, SpO_2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.3.1.30443	

Unknown Phys Alarm, SpO_2B	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.3.2.30443	
Unknown Phys Alarm, NIBP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.9.30443	
Unknown Phys Alarm, Impedance Respiration	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.7.1.30443	
Unknown PHS Alarm, Temperature 1	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.2.1.30443	
Unknown PHS Alarm, Temperature 2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.2.2.30443	
Unknown PHS Alarm, Temperature 3	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.2.3.30443	
Unknown Phys Alarm, CO2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.8.1.30443	
Unknown Phys Alarm, ART	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, ART2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, PA	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, Ao	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, UAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, BAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	

Unknown Phys Alarm, FAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, IBP1	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.1.30443	
Unknown Phys Alarm, IBP2	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.2.30443	
Unknown Phys Alarm, IBP3	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.3.30443	
Unknown Phys Alarm, IBP4	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.4.30443	
Unknown Phys Alarm, IBP5	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.5.30443	
Unknown Phys Alarm, IBP6	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.6.30443	
Unknown Phys Alarm, IBP7	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.7.30443	
Unknown Phys Alarm, IBP8	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.8.30443	
Unknown Phys Alarm, CVP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, RAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, LAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, ICP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	

Unknown Phys Alarm, UVP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, LVP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, pART	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.11.30443	
Unknown Phys Alarm, pCVP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.12.30443	
Unknown Phys Alarm, IAP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, ICP	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.1.0.30443	
Unknown Phys Alarm, CCO	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.6.2.30443	
Unknown Phys Alarm Violation	30443	MNDRY_EVT_PHYS_ALM_VIOLATION_UNKNOWN	99MNDRY	1.0.0.30443	
Unknown Phys Alarm, Arrhythmia	30443	MNDRY_EVT_PHYS_ALM_UNKNOWN_CHANNEL	99MNDRY	1.7.2.30443	
Unknown Phys Alarm	30101	MNDRY_EVT_PHYS_ALM_UNKNOWN	99MNDRY	1.0.0.30101	

Table Technical Alert Event Type Field Codes

***Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY	Based on parameter	Indicates the physiological parameter is outside the

					device’s measurement range. Refer to the table "Out of Range Alarm parameters definition" for possible parameters
Respiration CVA Present	199904	MDC_EVT_ERR_EQU_HR_AND_RR	MDC	1.7.1.199904	
Lead Off	196680	MDC_EVT_LEAD_OFF	MDC	1.0.0.196680	
Device Error	30176	MNDRY_EVT_DEVICE_TELEM_ERROR	99MNDRY	1.0.0.30176	
Screen Error	30177	MNDRY_EVT_SCREEN_ERROR	99MNDRY	1.0.0.30177	
Nurse Call	30179	MNDRY_EVT_NURSE_CALL	99MNDRY	1.0.0.30179	
ECG Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.7.0.30183	
Resp Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.7.1.30183	
ECG Leads Off	196682	MDC_EVT_LEADS_OFF	MDC	1.7.0.196682	More than one lead is off
ECG Lead Off	196680	MDC_EVT_LEAD_OFF	MDC	1.7.0.196680	OBX-20 will contain ECG lead found in body site table
ECG Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.7.0.30188	
ECG Init Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.7.0.30189	

ECG Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.7.0.30190	ECG, ECG1-ECG-8
ECG Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.7.0.30191	
ECG Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.7.0.30192	
ECG Noise	196682	MDC_EVT_NOISY	MDC	1.7.0.196682	Including HF Noise and LF Noise
Resp Disturbed	30193	MNDRY_EVT_RESP_DISTURBED	99MNDRY	1.7.1.30193	
ECG Signal Saturation	30194	MNDRY_EVT_SIGNAL_SATURATION	99MNDRY	1.7.0.30194	
ECG Overload	30196	MNDRY_EVT_ECG_OVERLOAD	99MNDRY	1.7.0.30196	
ECG INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY	1.7.0.30184	
ECG Weak Signal	196736	MDC_EVT_WEAK	MDC	1.7.0.196736	
ECG Configuration Error	30199	MNDRY_EVT_COFIG_ERROR	99MNDRY	1.7.0.30199	
Resp Electrode Poor Contact	30200	MNDRY_EVT_POOR_CONTACT	99MNDRY	1.7.0.30200	
ECG Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.7.0.30201	
ECG Artifact	30202	MNDRY_EVT_ARTIFACT	99MNDRY	1.7.0.30202	
Impedance Respiration Artifact	30127	MNDRY_EVT_RESP_ARTIFACT	99MNDRY	1.7.1.30127	
ECG ESU	30204	MNDRY_EVT_ECG_ESU	99MNDRY	1.7.0.30204	
ECG Leads Noise	30205	MNDRY_EVT_LEADS_NOISE	99MNDRY	1.7.0.30205	

ECG Leads Offset Error	30206	MNDRY_EVT_LEADS_OFFSET_ERROR	99MNDRY	1.7.0.30206	
ECG Cable Type Error	30207	MNDRY_EVT_CABLE_TYPE_ERROR	99MNDRY	1.7.0.30207	
ECG Cable Off	30222	MNDRY_EVT_CABLE_OFF	99MNDRY	1.7.0.30222	
Check Lead Connections	203298	MDC_EVT_ADVIS_LEAD_CHK	MDC	1.7.0.203298	
ECG Pace Set Error	30209	MNDRY_EVT_PACE_SET_ERROR	99MNDRY	1.7.0.30209	
Pacer Stopped Abnormally	30210	MNDRY_EVT_PACER_STOPPED_ABNORM	99MNDRY	1.7.5.30210	
Unable Analysis QT	30669	MNDRY_EVT_UNABLE_ANALYSIS_QT	99MNDRY	1.7.6.30669	
SpO2 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.3.1/1.3.2.30183	SPO2 / SPO2B
SpO2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.3.1/1.3.2.202834	SPO2 / SPO2B
SpO2 Searching for Pulse	30211	MNDRY_EVT_SEARCHING_PULSE	99MNDRY	1.3.1/1.3.2.30211	SPO2 / SPO2B
SpO2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.3.1/1.3.2.30188	SPO2 / SPO2B
SpO2 Unplugged	30212	MNDRY_EVT_UNPLUGGED	99MNDRY	1.3.1/1.3.2.30212	SPO2 / SPO2B
SpO2 Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.3.1/1.3.2.30189	SPO2 / SPO2B
SpO2 Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.3.1/1.3.2.30192	SPO2 / SPO2B
SpO2 Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.3.1/1.3.2.30191	SPO2 / SPO2B
SpO2 Weak Pulse	196736	MDC_EVT_WEAK	MDC	1.3.1/1.3.2.196736	SPO2 / SPO2B
SpO2 Weak Signal	196736	MDC_EVT_WEAK	MDC	1.3.1/1.3.2.196736	SPO2 / SPO2B

SpO2 Check Sensor	30213	MNDRY_EVT_SPO2_CHECK_ERROR	99MNDRY	1.3.1/1.3.2.30213	SPO2 / SPO2B
SpO2 Motion	30214	MNDRY_EVT_SPO2_MOTION	99MNDRY	1.3.1/1.3.2.30214	SPO2 / SPO2B
SpO2 Interference	196886	MDC_EVT_LIGHT_INTERF	MDC	1.3.1/1.3.2.196886	SPO2 / SPO2B
SpO2 Low Perfusion	30013	MNDRY_EVT_SPO2_LOW_PERFUSION	99MNDRY	1.3.1/1.3.2.30013	SPO2 / SPO2B
SpO2 Too Much Light	196886	MDC_EVT_LIGHT_INTERF	MDC	1.3.1/1.3.2.196886	SPO2 / SPO2B
SpO2 Unrecognized Sensor	30215	MNDRY_EVT_SPO2_UNRECOGNIZED_SENSOR	99MNDRY	1.3.1/1.3.2.30215	SPO2 / SPO2B
SpO2 Board Fault	30216	MNDRY_EVT_SPO2_BOARD_FAULT	99MNDRY	1.3.1/1.3.2.30216	SPO2 / SPO2B
SpO2 Sensor Error	30217	MNDRY_EVT_SPO2_SENSOR_ERROR	99MNDRY	1.3.1/1.3.2.30217	SPO2 / SPO2B
SpO2 No Sensor	30218	MNDRY_EVT_SPO2_NO_SENSOR	99MNDRY	1.3.1/1.3.2.30218	SPO2 / SPO2B
SpO2 Low Signal	196736	MDC_EVT_WEAK	MDC	1.3.1/1.3.2.196736	SPO2 / SPO2B
SpO2 Incompatible Sensor	30219	MNDRY_EVT_SPO2_INCOMP_SENSOR	99MNDRY	1.3.1/1.3.2.30219	SPO2 / SPO2B
SpO2 Out of Track	196676	MDC_EVT_LOST	MDC	1.3.1/1.3.2.196676	SPO2 / SPO2B
SpO2 Pulse Error	30220	MNDRY_EVT_SPO2_PULSE_ERROR	99MNDRY	1.3.1/1.3.2.30220	SPO2 / SPO2B
SpO2 Marginal Perfusion	30221	MNDRY_EVT_SPO2_MARGINAL_PERFUSION	99MNDRY	1.3.1/1.3.2.30221	SPO2 / SPO2B
SpO2 No Pulse	30048	MNDRY_EVT_SPO2_NO_PLUSE	99MNDRY	1.3.1/1.3.2.30048	SPO2 / SPO2B
SpO2 Selftest Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.3.1/1.3.2.30190	SPO2 / SPO2B
SpO2 Communication	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.3.1/1.3.2.30201	SPO2 / SPO2B

Abnormal					
SpO2 Shut Down	30653	MNDRY_EVT_SHUT_DOWN	99MNDRY	1.3.1/1.3.2.30653	SPO2 / SPO2B
△SpO2 Limit Error	196772	MDC_EVT_RANGE_ERR	MDC	1.3.3.196772	Equal to "Delta SpO2 Limit Error"
NIBP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.1.9.30183	
NIBP Init Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.1.9.30189	
NIBP Self test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.1.9.30190	
NIBP Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.1.9.30192	
NIBP Lose Cuff	30223	MNDRY_EVT_NIBP_LOSE_CUFF	99MNDRY	1.1.9.30223	
NIBP Air Leak	30224	MNDRY_EVT_NIBP_AIR_LEAK	99MNDRY	1.1.9.30224	
NIBP Air Error	30225	MNDRY_EVT_NIBP_AIR_ERROR	99MNDRY	1.1.9.30225	
NIBP Weak Signal	196736	MDC_EVT_WEAK	MDC	1.1.9.196736	
NIBP Out of Range	196774	MDC_EVT_RANGE_OVER	MDC	1.1.9.196774	
NIBP Excessive Motion	30226	MNDRY_EVT_NIBP_EXCESSIVE_MOTION	99MNDRY	1.1.9.30226	
NIBP Over Pressure	30227	MNDRY_EVT_NIBP_OVER_PRESSURE	99MNDRY	1.1.9.30227	
NIBP Signal Saturated	30228	MNDRY_EVT_NIBP_SIGNAL_SATURATED	99MNDRY	1.1.9.30228	
NIBP Pneumatic Leak	30229	MNDRY_EVT_NIBP_PNEUMATIC_LEAK	99MNDRY	1.1.9.30229	

NIBP System Failure	30230	MNDRY_EVT_NIBP_SYSTEM_FAILURE	99MNDRY	1.1.9.30230	
NIBP Timed Out	30231	MNDRY_EVT_NIBP_TIEMOUT	99MNDRY	1.1.9.30231	
NIBP Wrong Cuff Type	30232	MNDRY_EVT_NIBP_WRONG_CUFF_TYPE	99MNDRY	1.1.9.30232	
NIBP Measurement Fail	196964	MDC_EVT_MSMT_FAIL	MDC	1.1.9.196964	
NIBP Reset Error	30233	MNDRY_EVT_NIBP_RESET_ERROR	99MNDRY	1.1.9.30233	
NIBP Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.1.9.30201	
NIBP Reset due to Error	30234	MNDRY_EVT_NIBP_RESET_DUETO_ERROR	99MNDRY	1.1.9.30234	
NIBP VeniPuncture Overtime	30235	MNDRY_EVT_VENIPUNCTURE_OVERTIME	99MNDRY	1.1.9.30235	
NIBP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.1.9.30188	
Unknown Technical Alarm, T1	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.2.1.30183	
Unknown Technical Alarm, T2	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.2.2.30183	
Unknown Technical Alarm, T3	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.2.3.30183	
T1 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.2.1.202834	
T2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.2.2.202834	
T3 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.2.3.202834	
TEMP Board Failure	30237	MNDRY_EVT_TEMP_BOARD_ERROR	99MNDRY	1.2.0.30237	
TEMP Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.2.0.30189	

TEMP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.2.0.30188	
TEMP Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.2.0.30192	
TEMP Comm. Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.2.0.30191	
TEMP Selftest Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.2.0.30190	
TEMP Calibration Error	30238	MNDRY_EVT_TEMP_CALIB_ERROR	99MNDRY	1.2.0.30238	
TEMP Warmup Timed-Out	30239	MNDRY_EVT_TEMP_WARMUP_TIMEOUT	99MNDRY	1.2.0.30239	
TEMP Error Warming Resistor	30240	MNDRY_EVT_TEMP_WARM_RESISTOR_ERROR	99MNDRY	1.2.0.30240	
TEMP Ambient Temp High	30241	MNDRY_EVT_AMBIENT_TEMP_HIGH	99MNDRY	1.2.0.30241	
TEMP Ambient Temp Low	30242	MNDRY_EVT_AMBIENT_TEMP_LOW	99MNDRY	1.2.0.30242	
TEMP Voltage High	30243	MNDRY_EVT_TEMP_VOLTAGE_HIGH	99MNDRY	1.2.0.30243	
TEMP Voltage Low	30244	MNDRY_EVT_TEMP_VOLTAGE_LOW	99MNDRY	1.2.0.30244	
TEMP Prediction Error	30245	MNDRY_EVT_TEMP_PREDICTION_ERROR	99MNDRY	1.2.0.30245	
TEMP Probe Off	30246	MNDRY_EVT_TEMP_PROBE_OFF	99MNDRY	1.2.0.30246	
TEMP Wrong Probe	30247	MNDRY_EVT_TEMP_WRONG_PROBE	99MNDRY	1.2.0.30247	
TEMP No Probe	30248	MNDRY_EVT_TEMP_NO_PROBE	99MNDRY	1.2.0.30248	
TEMP High Limit Out of Range	196774	MDC_EVT_RANGE_OVER	MDC	1.2.0.196774	
TEMP Low Limit Out of Range	196774	MDC_EVT_RANGE_OVER	MDC	1.2.0.196774	

TEMP Probe Misplaced	30249	MNDRY_EVT_TEMP_PROBE_MISPLACED	99MNDRY	1.2.0.30249	
TEMP Warming Up	30250	MNDRY_EVT_TEMP_WARMING_UP	99MNDRY	1.2.0.30250	
TEMP Warming Stop	30251	MNDRY_EVT_TEMP_WARMING_STOP	99MNDRY	1.2.0.30251	
TEMP Predicting	30252	MNDRY_EVT_TEMP_PREDICTING	99MNDRY	1.2.0.30252	
TEMP Prediction Over	30253	MNDRY_EVT_TEMP_PREDICTION_OVER	99MNDRY	1.2.0.30253	
TEMP Deviceing	30254	MNDRY_EVT_DEVCEING	99MNDRY	1.2.0.30254	
TEMP Device Over	30255	MNDRY_EVT_DEVCE_OVER	99MNDRY	1.2.0.30255	
TEMP Channel Selftest Fault	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.2.0.30190	
TEMP Comm. Abnormal	30236	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.2.0.30236	
Temp Measuring Timeout	30256	MNDRY_EVT_TEMP_MEASURE_TIMEOUT	99MNDRY	1.2.0.30256	
Cannot Measure Neo Rectal Temp.	30257	MNDRY_EVT_CANNOT_MEASURE_NEO_RECTAL_TEMP	99MNDRY	1.2.0.30257	
IBP Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.1.1-1.1.8.202834	
IBP Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.1.1-1.1.8.30189	
IBP Need Calc. Zero	30258	MNDRY_EVT_BIP_NEED_CALC_ZERO	99MNDRY	1.1.1-1.1.8.30258	
IBP Sensor Fault	30259	MNDRY_EVT_IBP_SENSOR_FAULT	99MNDRY	1.1.0-1.1.8.30259	
IBP Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY	1.1.0-1.1.8.30260	IBP1-8

				1.1.0.30260	other IBP…
TB Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.6.1.202834	
TI Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.6.1.202834	
C.O. Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.6.1.30189	
C.O. Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.6.1.30192	
C.O. Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.6.1.30191	
C.O. Self-test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.6.1.30190	
C.O. Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.6.1.30201	
C.O. No Sensor	30261	MNDRY_EVT_CO_NO_SENSOR	99MNDRY	1.6.1.30261	
C.O. Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.6.1.30188	
TB Calibration Error	30262	MNDRY_EVT_TB_CALIBRATION_ERROR	99MNDRY	1.6.1.30262	
TI Calibration Error	30263	MNDRY_EVT_TI_CALIBRATION_ERROR	99MNDRY	1.6.1.30263	
CO2 Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.8.0.30183	
CO2 Standby	30265	MNDRY_EVT_CO2_STANDBY	99MNDRY	1.8.0.30265	
CO2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.8.0.202834	
CO2 Warm Up	30266	MNDRY_EVT_CO2_WARM_UP	99MNDRY	1.8.0.30266	
CO2 Sensor Warm Up	30267	MNDRY_EVT_CO2_SENSOR_WARM_UP	99MNDRY	1.8.0.30267	

CO2 No Watertrap	30268	MNDRY_EVT_CO2_NO_WATERTRAP	99MNDRY	1.8.0.30268	
CO2 Watertrap Occlude	30269	MNDRY_EVT_CO2_WATERTRAP_OCCLUDE	99MNDRY	1.8.0.30269	
CO2 Signal Low	30270	MNDRY_EVT_CO2_SIGNAL_LOW	99MNDRY	1.8.0.30270	
CO2 Signal Too Low	30271	MNDRY_EVT_CO2_SIGNAL_TOO_LOW	99MNDRY	1.8.0.30271	
CO2 Barometric Too Large	30272	MNDRY_EVT_CO2_BAROMETRIC_TOO_LARGE	99MNDRY	1.8.0.30272	
CO2 Pneumatic Leak	30273	MNDRY_EVT_CO2_PNEUMATIC_LEAK	99MNDRY	1.8.0.30273	
CO2 Signal Noisy	30274	MNDRY_EVT_CO2_SIGNAL_NOISY	99MNDRY	1.8.0.30274	
CO2 Signal Saturated	30275	MNDRY_EVT_CO2_SIGNAL_SATURATED	99MNDRY	1.8.0.30275	
CO2 Calculation Error	30276	MNDRY_EVT_CO2_CALCU_ERROR	99MNDRY	1.8.0.30276	
CO2 Sensor Fault	30277	MNDRY_EVT_CO2_SENSOR_FAULT	99MNDRY	1.8.0.30277	
CO2 Sensor Temp High	30278	MNDRY_EVT_CO2_SENSOR_TEMP_HIGH	99MNDRY	1.8.0.30278	
CO2 Sensor Temp Low	30279	MNDRY_EVT_CO2_SENSOR_TEMP_LOW	99MNDRY	1.8.0.30279	
CO2 Watchdog Timeout	30280	MNDRY_EVT_CO2_WATCHDOG_TIMEOUT	99MNDRY	1.8.0.30280	
CO2 System Error	30281	MNDRY_EVT_CO2_SYSTEM_ERROR	99MNDRY	1.8.0.30281	
CO2 Internal Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.8.0.30192	
CO2 Pump Fault	30282	MNDRY_EVT_CO2_PUMP_FAULT	99MNDRY	1.8.0.30282	

CO2 Reverse Flow	30283	MNDRY_EVT_CO2_REVERSE_FLOW	99MNDRY	1.8.0.30283	
CO2 Forward Flow	30284	MNDRY_EVT_CO2_FORWARD_FLOW	99MNDRY	1.8.0.30284	
CO2 Malfunction	30285	MNDRY_EVT_CO2_MALFUNCTION	99MNDRY	1.8.0.30285	
CO2 Barometric High	30286	MNDRY_EVT_CO2_BAROMETRIC_HIGH	99MNDRY	1.8.0.30286	
CO2 Barometric Low	30287	MNDRY_EVT_CO2_BAROMETRIC_LOW	99MNDRY	1.8.0.30287	
CO2 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.8.0.30189	
CO2 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.8.0.30192	
CO2 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.8.0.30191	
CO2 Limit Changed	30287	MNDRY_EVT_CO2_LIMIT_CHANGED	99MNDRY	1.8.0.30287	
INSCO2 Limit Changed	30288	MNDRY_EVT_INSCO2_LIMIT_CHANGED	99MNDRY	1.8.0.30288	
CO2 AWRR Limit Changed	30289	MNDRY_EVT_AWRR_LIMIT_CHANGED	99MNDRY	1.8.0.30289	
CO2 Maintain	30290	MNDRY_EVT_CO2_MAINTAIN	99MNDRY	1.8.0.30290	
CO2 Start Up	30291	MNDRY_EVT_CO2_START_UP	99MNDRY	1.8.0.30291	
CO2 Calibrate Zero	30292	MNDRY_EVT_CO2_CALIB_ZERO	99MNDRY	1.8.0.30292	
CO2 Calibrate	30293	MNDRY_EVT_CO2_CALIBRATE	99MNDRY	1.8.0.30293	
CO2 Airway Press High	30294	MNDRY_EVT_CO2_AIRWAY_PRESS_HIGH	99MNDRY	1.8.0.30294	
CO2 Airway Press Low	30295	MNDRY_EVT_CO2_AIRWAY_PRESS_LOW	99MNDRY	1.8.0.30295	

CO2 Hardware Error	30296	MNDRY_EVT_CO2_HARDWARE_ERROR	99MNDRY	1.8.0.30296	
CO2 Filter Line Abnormal	30297	MNDRY_EVT_CO2_FITER_LINE_ABNORMAL	99MNDRY	1.8.0.30297	
CO2 Zeroing Failed	30298	MNDRY_EVT_CO2_ZEROING_FAILED	99MNDRY	1.8.0.30298	
CO2 User Calibrate Fail	30299	MNDRY_EVT_CO2_USER_CALIB_FAILED	99MNDRY	1.8.0.30299	
CO2 Factory Calibrate Fail	30300	MNDRY_EVT_CO2_FACTORY_CALIB_FAILED	99MNDRY	1.8.0.30300	
CO2 EX-A/D 2.5V Power Error	30301	MNDRY_EVT_EX_A/D_2_5V_POWER_ERROR	99MNDRY	1.8.0.30301	
CO2 12V Power Error	30302	MNDRY_EVT_CO2_12V_POWER_ERROR	99MNDRY	1.8.0.30302	
CO2 IN-A/D 2.5V Power Error	30303	MNDRY_EVT_IN_A/D_2_5V_POWER_ERROR	99MNDRY	1.8.0.30303	
CO2 Pump Abnormal	30304	MNDRY_EVT_CO2_PUMP_ABNORMAL	99MNDRY	1.8.0.30304	
CO2 Valve Abnormal	30305	MNDRY_EVT_CO2_VALVE_ABNORMAL	99MNDRY	1.8.0.30305	
CO2 Motor Abnormal	30306	MNDRY_EVT_CO2_MOTOR_ABMORMAL	99MNDRY	1.8.0.30306	
CO2 Flow CTR Error	30307	MNDRY_EVT_CO2_FLOW_CTR_ERROR	99MNDRY	1.8.0.30307	
CO2 Factory Calibrate Invalid	30308	MNDRY_EVT_CO2_FACTORY_CALIB_INVALID	99MNDRY	1.8.0.30308	
CO2 EEPROM R/W Addr. Error	30309	MNDRY_EVT_EEPROM_R/M_ADDR_ERROR	99MNDRY	1.8.0.30309	
CO2 EEPROM R/W Length Error	30310	MNDRY_EVT_EEPROM_R/M_LEN_ERROR	99MNDRY	1.8.0.30310	
CO2 EEPROM Response Error	30311	MNDRY_EVT_EEPROM_RESPONSE_ERROR	99MNDRY	1.8.0.30311	

CO2 EEPROM Checksum Error	30312	MNDRY_EVT_EEPROM_CHECKSUM_ERROR	99MNDRY	1.8.0.30312	
CO2 EX-AD Sample Channel Error	30313	MNDRY_EVT_EXAD_SAMPLE_CHANNEL_ERROR	99MNDRY	1.8.0.30313	
CO2 IN-AD Sample Channel Error	30314	MNDRY_EVT_INAD_SAMPLE_CHANNEL_ERROR	99MNDRY	1.8.0.30314	
CO2 Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.8.0.30190	
CO2 COMM TXD Buffer Full	30315	MNDRY_EVT_COMM_TXD_BUFFER_FULL	99MNDRY	1.8.0.30315	
CO2 COMM RXD Register Error	30316	MNDRY_EVT_COMM_RXD_REGISTER_ERROR	99MNDRY	1.8.0.30316	
CO2 COMM RXD Buffer Full	30317	MNDRY_EVT_COMM_RXD_BUFFER_FULL	99MNDRY	1.8.0.30317	
CO2 COMM RXD Overtime	30318	MNDRY_EVT_COMM_RXD_OVERTIME	99MNDRY	1.8.0.30318	
CO2 COMM RXD Illegal ASCII	30319	MNDRY_EVT_COMM_RXD_ILLEGAL_ASCII	99MNDRY	1.8.0.30319	
CO2 COMM RXD Frame Error	30320	MNDRY_EVT_COMM_RXD_FRAME_ERROR	99MNDRY	1.8.0.30320	
CO2 COMM RXD Length Error	30321	MNDRY_EVT_COMM_RXD_LENGTH_ERROR	99MNDRY	1.8.0.30321	
CO2 Power Up	30322	MNDRY_EVT_CO2_POWER_UP	99MNDRY	1.8.0.30322	
CO2 SFM	30323	MNDRY_EVT_CO2_SFM	99MNDRY	1.8.0.30323	
CO2 Initializing	30324	MNDRY_EVT_CO2_INITIALIZING	99MNDRY	1.8.0.30324	

CO2 Overrange	196774	MDC_EVT_RANGE_OVER	MDC	1.8.0.196774	
CO2 Check Calibration	30325	MNDRY_EVT_CO2_CHECK_CALIBRATION	99MNDRY	1.8.0.30325	
CO2 Check Airway	30326	MNDRY_EVT_CO2_CHECK_ARIWAY	99MNDRY	1.8.0.30326	
CO2 FilterLine Occluded	30327	MNDRY_EVT_CO2_FILTERLINE_OCCLUDED	99MNDRY	1.8.0.30327	
CO2 No Filterline	30328	MNDRY_EVT_CO2_NO_FILTERLINE	99MNDRY	1.8.0.30328	
CO2 Purging	30329	MNDRY_EVT_CO2_PURGING	99MNDRY	1.8.0.30329	
CO2 Calibrate Error	30330	MNDRY_EVT_CO2_CALIB_ERROR	99MNDRY	1.8.0.30330	
CO2 Barometric Too High	30331	MNDRY_EVT_CO2_BAROMETRIC_TOO_HIGH	99MNDRY	1.8.0.30331	
CO2 Barometric Too Low	30332	MNDRY_EVT_CO2_BAROMETRIC_TOO_LOW	99MNDRY	1.8.0.30332	
CO2 Require Zero	30333	MNDRY_EVT_CO2_REQUIRE_ZERO	99MNDRY	1.8.0.30333	
CO2 Check Adapter	30334	MNDRY_EVT_CO2_CHECK_ADAPTER	99MNDRY	1.8.0.30334	
CO2 Main Board Err	30335	MNDRY_EVT_CO2_MAIN_BOARD_ERROR	99MNDRY	1.8.0.30335	
CO2 Need Replace Scrubber and Pump	30336	MNDRY_EVT_CO2_REPLACE_PUMP	99MNDRY	1.8.0.30336	
CO2 Check PCB	30337	MNDRY_EVT_CO2_CHECK_PCB	99MNDRY	1.8.0.30337	
CO2 15V Overrange	196774	MDC_EVT_RANGE_OVER	MDC	1.8.0.196774	
CO2 Temp Overrange	196774	MDC_EVT_RANGE_OVER	MDC	1.8.0.196774	

CO2 No Sensor	30338	MNDRY_EVT_CO2_NO_SENSOR	99MNDRY	1.8.0.30338	
CO2 Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.8.0.30201	
CO2 Normalization Failed	30339	MNDRY_EVT_CO2_NORMALIZATION_FAIL	99MNDRY	1.8.0.30339	
CO2 Need Change Water trap	30672	MNDRY_EVT_CO2_NEED_CHANGE_WATERTRAP	99MNDRY	1.8.0.30672	
Water trap Mismatch Patient Size	30673	MNDRY_EVT_WATERTRAP_MISMATCH_PATIENT	99MNDRY	1.8.0.30673	
CO2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.8.0.30188	
CO2 Need Change Battery	203286	MDC_EVT_ADVIS_BATT_REPLACE	MDC	1.8.0.203286	
CO2 O2 Error	30341	MNDRY_EVT_CO2_O2_ERROR	99MNDRY	1.8.0.30341	
AG No Water Trap	30345	MNDRY_EVT_AG_NO_WATERTRAP	99MNDRY	1.9.0.30345	
AG Change Water Trap	30346	MNDRY_EVT_AG_CHANGE_WATERTRAP	99MNDRY	1.9.0.30346	
AG Wrong Water Trap	30347	MNDRY_EVT_AG_WRONG_WATERTRAP	99MNDRY	1.9.0.30347	
AG Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.9.0.30189	
AG Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.9.0.30191	
AG Occlusion	30348	MNDRY_EVT_AG_OCCLUSION	99MNDRY	1.9.0.30348	
AG Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.9.0.30192	
AG Hardware Error	30349	MNDRY_EVT_AG_HARDWARE_ERROR	99MNDRY	1.9.0.30349	

AG Paramagnetic O2 Error	30350	MNDRY_EVT_AG_PARAMAGNETIC_O2_ERROR	99MNDRY	1.9.0.30350	
AG Galvanic O2 Sensor Error	30351	MNDRY_EVT_AG_GALVANIC_O2_SENSOR_ERROR	99MNDRY	1.9.0.30351	
AG Oxima Depletion Warn	30352	MNDRY_EVT_AG_OXIMA_DEPLETION_WARN	99MNDRY	1.9.0.30352	
AG Oxima Depletion Error	30353	MNDRY_EVT_AG_OXIMA_DEPLETION_ERROR	99MNDRY	1.9.0.30353	
AG Data Limit Error	30354	MNDRY_EVT_AG_DATA_LIMIT_ERROR	99MNDRY	1.9.0.30354	
AG Accuracy Error	30355	MNDRY_EVT_AG_ACCURACY_ERROR	99MNDRY	1.9.0.30355	
AG Zeroing Failed	30356	MNDRY_EVT_AG_ZEROING_FAILED	99MNDRY	1.9.0.30356	
AG Calibration Failed	30357	MNDRY_EVT_AG_CALIB_FAILED	99MNDRY	1.9.0.30357	
AG CO2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.9.0.202834	
AG Self-test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.9.0.30190	
AG RR Accuracy Unspecified	30264	MNDRY_EVT_AG_RR_ACCURACY_UNSPECIFIED	99MNDRY	1.9.0.30264	
AG CO2 Accuracy Unspecified	30358	MNDRY_EVT_AG_CO2_ACCURACY_UNSPECIFIED	99MNDRY	1.9.0.30358	
AG O2 Accuracy Unspecified	30359	MNDRY_EVT_AG_O2_ACCURACY_UNSPECIFIED	99MNDRY	1.9.0.30359	
AG N2O Accuracy Unspecified	30360	MNDRY_EVT_AG_N2O_ACCURACY_UNSPECIFIED	99MNDRY	1.9.0.30360	
AG Enf Accuracy Unspecified	30361	MNDRY_EVT_AG_ENF_ACCURACY_UNSPECIFIED	99MNDRY	1.9.0.30361	
AG Iso Accuracy Unspecified	30362	MNDRY_EVT_AG_ISO_ACCURACY_UNSPECIFIED	99MNDRY	1.9.0.30362	
AG Sev Accuracy Unspecified	30363	MNDRY_EVT_AG_SEV_ACCURACY_UNSPECIFIED	99MNDRY	1.9.0.30363	

AG Hal Accuracy Unspecified	30364	MNDRY_EVT_AG_HAL_ACCURACY_UNSPECIFIED	99MNDRY	1.9.0.30364	
AG Des Accuracy Unspecified	30365	MNDRY_EVT_AG_DES_ACCURACY_UNSPECIFIED	99MNDRY	1.9.0.30365	
AG Hardware Error	30366	MNDRY_EVT_AG_HARDWARE_ERROR	99MNDRY	1.9.0.30366	
Anesthetic Mixture	30128	MNDRY_EVT_MIX_GAS	99MNDRY	1.9.0.30128	
AG Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.9.0.30201	
AG Not Connected	30368	MNDRY_EVT_AG_NOT_CONNECTED	99MNDRY	1.9.0.30368	
AG Zeroing	30369	MNDRY_EVT_AG_ZEROING	99MNDRY	1.9.0.30369	
AG Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.9.0.30188	
NMT Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.23.0.30183	
NMT No Main Cable	30370	MNDRY_EVT_NMT_NO_MAIN_CABLE	99MNDRY	1.23.0.30370	
NMT No Sensor	30112	MNDRY_EVT_NMT_NO_SENSOR	99MNDRY	1.23.0.30112	
NMT Stimulation Electrode Off	30113	MNDRY_EVT_NMT_ELECTRODE_OFF	99MNDRY	1.23.0.30113	
NMT Sensor Comm. Err	30114	MNDRY_EVT_NMT_SENSOR_COMM_ERROR	99MNDRY	1.23.0.30114	
Stimulation Current Over Limit	30115	MNDRY_EVT_NMT_SMLT_OVER_LIMIT	99MNDRY	1.23.0.30115	
NMT Comm. Abnormal	30116	MNDRY_EVT_NMT_COMM_ABNORM	99MNDRY	1.23.0.30116	
NMT Comm. Stop	30117	MNDRY_EVT_NMT_COMM_STOP	99MNDRY	1.23.0.30117	
NMT Comm. Err	30118	MNDRY_EVT_NMT_COMM_ERR	99MNDRY	1.23.0.30118	

NMT Block Recovery Limit Err	30119	MNDRY_EVT_NMT_BLOCK_RE_LIMIT_ERR	99MNDRY	1.23.0.30119	
NMT Init Err	30120	MNDRY_EVT_NMT_INIT_ERR	99MNDRY	1.23.0.30120	
NMT SelfTest Err	30121	MNDRY_EVT_NMT_SELFTEST_ERR	99MNDRY	1.23.0.30121	
NMT Power Err	30122	MNDRY_EVT_NMT_POWER_ERR	99MNDRY	1.23.0.30122	
NMT Abnormal Reset	30123	MNDRY_EVT_NMT_RESET_ABNORM	99MNDRY	1.23.0.30123	
NMT Sensor Failure	30371	MNDRY_EVT_NMT_SENSOR_FAILURE	99MNDRY	1.23.0.30371	
NMT Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.23.0.30188	
NMT Battery Low	196802	MDC_EVT_BATT_LO	MDC	1.23.0.196802	
NMT Battery Critical Low	30426	MNDRY_EVT_CRITICALLY_LOW_BATTERY	99MNDRY	1.23.0.30426	
NMT No Transducer Sensor	30112	MNDRY_EVT_NMT_NO_SENSOR	99MNDRY	1.23.0.30112	
NMT No Temp Sensor	30112	MNDRY_EVT_NMT_NO_SENSOR	99MNDRY	1.23.0.30112	
NMT No Stimulation Cable	30742	MNDRY_EVT_NMT_NO_STIMULATION_CABLE	99MNDRY	1.23.0.30742	
NMT Calibrate Error	30659	MNDRY_EVT_NMT_CALIBRATE_ERROR	99MNDRY	1.23.0.30659	
NMT Pads Bad Contact	30660	MNDRY_EVT_NMT_PADS_BAD_CONTACT	99MNDRY	1.23.0.30660	
System WD Failure	30372	MNDRY_EVT_SYSTEM_WD_FAILURE	99MNDRY	1.0.0.30372	
System Software Error	30373	MNDRY_EVT_SYSTEM_SOFTWARE_ERROR	99MNDRY	1.0.0.30373	
System CMOS Full	30374	MNDRY_EVT_SYSTEM_CMOS_FULL	99MNDRY	1.0.0.30374	

System CMOS Error	30375	MNDRY_EVT_SYSTEM_CMOS_ERROR	99MNDRY	1.0.0.30375	
System FPGA Failure	30376	MNDRY_EVT_SYSTEM_FPGA_FAILURE	99MNDRY	1.0.0.30376	
RT Clock Need Reset	30377	MNDRY_EVT_RT_CLOCK_NEED_RESET	99MNDRY	1.0.0.30377	
RT Clock Not Exist	30378	MNDRY_EVT_RT_CLOCK_NOT_EXIST	99MNDRY	1.0.0.30378	
System Failure	30379	MNDRY_EVT_SYSTEM_FAILURE	99MNDRY	1.0.0.30379	
CF Storage Card Error	30380	MNDRY_EVT_CF_STORAGE_CARD_ERROR	99MNDRY	1.0.0.30380	
IP Address Conflict	30381	MNDRY_EVT_IP_CONFLICT	99MNDRY	1.0.0.30381	
Parameter Accuracy Error	30382	MNDRY_EVT_PARA_ACCURACY_ERROR	99MNDRY	1.0.0.30382	
Loading User Config. Failed	30383	MNDRY_EVT_LOAD_USER_CFG_FAIL	99MNDRY	1.0.0.30383	
Loading Factory Config. Failed	30384	MNDRY_EVT_LOAD_FACTORY_CFG_FAIL	99MNDRY	1.0.0.30384	
Loading Recent Config. Failed	30385	MNDRY_EVT_LOAD_RECENT_CFG_FAIL	99MNDRY	1.0.0.30385	
Loading Default Config. Failed	30386	MNDRY_EVT_LOAD_DEFUALT_CFG_FAIL	99MNDRY	1.0.0.30386	
Storage Card Space Low	30387	MNDRY_EVT_STORAGE_CARD_SPACE_LOW	99MNDRY	1.0.0.30387	
Cooling Fan Failure	197148	MDC_EVT_VENT_TEMP_HI	MDC	1.0.0.197148	
No Fan	30388	MNDRY_EVT_NO_FAN	99MNDRY	1.0.0.30388	
No Speaker	30389	MNDRY_EVT_NO_SPEAKER	99MNDRY	1.0.0.30389	
No Data Card	30390	MNDRY_EVT_NO_DATA_CARD	99MNDRY	1.0.0.30390	

Power Board Comm. Err	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.0.0.30192	
Therapy Module Comm. Err	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.0.0.30192	
Main Control Selftest Err	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.0.0.30190	
Data Card Err	30391	MNDRY_EVT_DATA_CARD_ERROR	99MNDRY	1.0.0.30391	
ECG algorithm mismatched	30392	MNDRY_EVT_ECG_ALG_MISMATCH	99MNDRY	1.0.0.30392	
Last User Test Failed	30393	MNDRY_EVT_LAST_USER_TEST_FAILED	99MNDRY	1.0.0.30393	
Last Auto Test Failed	30394	MNDRY_EVT_LAST_AUTO_TEST_FAILED	99MNDRY	1.0.0.30394	
Load Configuration Error	30395	MNDRY_EVT_LOAD_CFG_ERROR	99MNDRY	1.0.0.30395	
Disarming Failed	30398	MNDRY_EVT_DISARMING_FAILED	99MNDRY	1.0.0.30398	
Monitor Module Selftest Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.0.0.30190	
Monitor Module Reset Error	30399	MNDRY_EVT_MONITOR_MODULE_RESET_ERROR	99MNDRY	1.0.0.30399	
Monitor Module Voltage Error	30400	MNDRY_EVT_MONITOR_MODULE_VOLTAGE_ERROR	99MNDRY	1.0.0.30400	
Not Charge/Discharge Frequently	30401	MNDRY_EVT_NOT_CHARGE/DISCHARGE_FREQUENTLY	99MNDRY	1.0.0.30401	
Machine Type Error	30402	MNDRY_EVT_MACHINE_TYPE_ERROR	99MNDRY	1.0.0.30402	
USB Drive Err	30403	MNDRY_EVT_USB_DRIVE_ERROR	99MNDRY	1.0.0.30403	

USB Drive Space Low	30404	MNDRY_EVT_USB_DRIVE_SPACE_LOW	99MNDRY	1.0.0.30404	
Battery Charging Err	30405	MNDRY_EVT_BATTERY_CHARGING_ERROR	99MNDRY	1.30.1.30405	
Keyboard Init. Error	30406	MNDRY_EVT_KEYBOARD_INIT_ERROR	99MNDRY	1.0.0.30406	
Keyboard Not Available	30407	MNDRY_EVT_KEYBOARD_NOT_AVAILABLE	99MNDRY	1.0.0.30407	
Keyboard Communications Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.0.0.30192	
Keyboard Error	30408	MNDRY_EVT_KEYBOARD_ERROR	99MNDRY	1.0.0.30408	
Keyboard Failure	30409	MNDRY_EVT_KEYBOARD_FAILURE	99MNDRY	1.0.0.30409	
Network Init. Error	30410	MNDRY_EVT_NETWORK_INIT_ERROR	99MNDRY	1.0.0.30410	
Power Voltage Too High	30411	MNDRY_EVT_POWER_VOL_TOO_HIGH	99MNDRY	1.30.1.30411	
Power Voltage Too Low	30412	MNDRY_EVT_POWER_VOL_TOO_LOW	99MNDRY	1.30.1.30412	
Over Voltage Protection	30413	MNDRY_EVT_OVER_VOL_PROTECTION	99MNDRY	1.30.1.30413	
DC Temp Too High	30414	MNDRY_EVT_DC_TEMP_TOO_HIGH	99MNDRY	1.30.1.30414	
DC Temp Too Low	30415	MNDRY_EVT_DC_TEMP_TOO_LOW	99MNDRY	1.30.1.30415	
Low Battery	196802	MDC_EVT_BATT_LO	MDC	1.30.1.196802	
20m Battery Power Left	30416	MNDRY_EVT_20M_BATTERY_LEFT	99MNDRY	1.30.1.30416	
10m Battery Power Left	30417	MNDRY_EVT_10M_BATTERY_LEFT	99MNDRY	1.30.1.30417	

Battery Temp Too High	30418	MNDRY_EVT_BATTERY_TEMP_TOO_HIGH	99MNDRY	1.30.1.30418	
Battery Temp Too Low	30419	MNDRY_EVT_BATTERY_TEMP_TOO_LOW	99MNDRY	1.30.1.30419	
Battery Over Charged	30420	MNDRY_EVT_BATTERY_OVER_CHARGE	99MNDRY	1.30.1.30420	
Battery Voltage Too High	30421	MNDRY_EVT_BATTERY_VOL_TOO_HIGH	99MNDRY	1.30.1.30421	
Battery Voltage Too Low	30422	MNDRY_EVT_BATTERY_VOL_TOO_LOW	99MNDRY	1.30.1.30422	
Battery Difference	30423	MNDRY_EVT_BATTERY_DIFF	99MNDRY	1.30.1.30423	
Battery Removed	30424	MNDRY_EVT_BATTERY_REMOVED	99MNDRY	1.30.1.30424	
Only One Battery	30425	MNDRY_EVT_ONLY_ONE_BATTERY	99MNDRY	1.30.1.30425	
Power Board Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.30.1.30192	
Critically Low Battery	30426	MNDRY_EVT_CRITICALLY_LOW_BATTERY	99MNDRY	1.30.1.30426	
Battery Overload	30427	MNDRY_EVT_BATTERY_OVERLOAD	99MNDRY	1.30.1.30427	
Power Board Volt Error	30428	MNDRY_EVT_POWER_BOARD_VOL_ERROR	99MNDRY	1.30.1.30428	
No Battery	30130	MNDRY_EVT_BATTERY_MISSING	99MNDRY	1.30.1.30130	
Battery Error	30430	MNDRY_EVT_BATTERY_ERROR	99MNDRY	1.30.1.30430	
Battery Aged	30431	MNDRY_EVT_BATTERY_AGED	99MNDRY	1.30.1.30431	
Battery Failed Charging	30432	MNDRY_EVT_BATTERY_CHARGING_FAIL	99MNDRY	1.30.1.30432	

RT Clock Error	30433	MNDRY_EVT_RT_CLOCK_ERROR	99MNDRY	1.0.0.30433	
Battery Charging Error	30434	MNDRY_EVT_CHARGING_ERROR	99MNDRY	1.30.1.30434	
Powerboard Self-test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.30.1.30190	
Power Interrupted	30435	MNDRY_EVT_POWER_INTERRUPTED	99MNDRY	1.30.1.30435	
Recorder Init. Error	30436	MNDRY_EVT_RECORDER_INIT_ERROR	99MNDRY	1.25.1.30436	
Recorder Self-test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.25.1.30190	
Recorder Initializing	30437	MNDRY_EVT_RECORDER_INITIALIZING	99MNDRY	1.25.1.30437	
Recorder Busy	30438	MNDRY_EVT_RECORDER_BUSY	99MNDRY	1.25.1.30438	
Recorder Voltage High	30439	MNDRY_EVT_RECORDER_VOL_HIGH	99MNDRY	1.25.1.30439	
Recorder Voltage Low	30440	MNDRY_EVT_RECORDER_VOL_LOW	99MNDRY	1.25.1.30440	
Recorder Too Hot	30441	MNDRY_EVT_RECORDER_TOO_HOT	99MNDRY	1.25.1.30441	
Recorder Out of Alignment	30442	MNDRY_EVT_RECORDER_OUTOF_ALIGN	99MNDRY	1.25.1.30442	
Recorder Out of Paper	203302	MDC_EVT_ADVIS_REC_PAPER_REPLACE	MDC	1.25.1.203302	
Recorder Paper Jam	30444	MNDRY_EVT_RECORDER_PAPER_JAM	99MNDRY	1.25.1.30444	
Recorder Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.25.1.30192	
Recorder Queue Full	30445	MNDRY_EVT_RECORDER_QUEUE_FULL	99MNDRY	1.25.1.30445	
Recorder Paper Wrong Pos.	30446	MNDRY_EVT_RECORDER_PAPER_WP	99MNDRY	1.25.1.30446	

Recorder Serial Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.25.1.30192	
Recorder Not Available	30447	MNDRY_EVT_RECORDER_NOT_AVAILABLE	99MNDRY	1.25.1.30447	
Recorder Over Current	30448	MNDRY_EVT_RECORDER_OVERCURRENT	99MNDRY	1.25.1.30448	
Patient Info Conflict	30449	MNDRY_EVT_PATINFO_CONFILICT	99MNDRY	1.0.0.30449	
Not Wave Saved	30451	MNDRY_EVT_NOT_WAVE_SAVED	99MNDRY	1.0.0.30451	
Net Disconnected	30452	MNDRY_EVT_NET_DISCONNECTED	99MNDRY	1.0.0.30452	
Patient Info Conflict With ADT	30454	MNDRY_EVT_PATINFO_CONFLICT_WITH_ADT	99MNDRY	1.0.0.30454	
T1 Battery Temp Too High	30467	MNDRY_EVT_T1_BATTERY_TEMP_TOO_HIGH	99MNDRY	1.30.1.30467	
Read dock E2PROM error	30468	MNDRY_EVT_READ_DOCK_E2PROM_ERROR	99MNDRY	1.28.0.30468	
Tele Interference	30469	MNDRY_EVT_TELE_INTERFERNECE	99MNDRY	1.29.0.30469	
Tele No Signal	30470	MNDRY_EVT_TELE_NO_SIGNAL	99MNDRY	1.29.0.30470	
Tele Receiver Fault	30471	MNDRY_EVT_TELE_RECEIVER_FAULT	99MNDRY	1.29.0.30471	
Wrong ID	30473	MNDRY_EVT_WRONG_ID	99MNDRY	1.29.0.30473	
Wrong Channel	30474	MNDRY_EVT_WRONG_CHANNEL	99MNDRY	1.29.0.30474	
NIBP Pod Master CPU Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.29.0.30190	
NIBP Pod Slave CPU	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.29.0.30190	

Self-check Error					
NIBP Pod Battery Low	30475	MNDRY_EVT_NIBP_POD_BATTERY_LOW	99MNDRY	1.29.0.30475	
NIBP Pod Battery Depleted	30674	MNDRY_EVT_NIBP_POD_BATTERY_DEPLETED	99MNDRY	1.29.0.30674	
NIBP Pod Voltage Abnormal	30675	MNDRY_EVT_NIBP_POD_VOLTAGE_ABNORMAL	99MNDRY	1.29.0.30675	
NIBP Pod Battery Abnormal	30676	MNDRY_EVT_NIBP_POD_BATTERY_ABNORMAL	99MNDRY	1.29.0.30676	
NIBP Pod Battery Maintenance Required	30677	MNDRY_EVT_NIBP_POD_BATTERY_MAINTENANCE_REQUIRED	99MNDRY	1.29.0.30677	
NIBP Pod Clock Needs To Be Set	30678	MNDRY_EVT_NIBP_POD_CLOCK_NEEDS_TO_BE_SET	99MNDRY	1.29.0.30678	
NIBP All Seq. Not Set	30679	MNDRY_EVT_NIBP_ALL_SEQ_NOT_SET	99MNDRY	1.29.0.30679	
SPO2 POD Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.29.0.30190	
Transmitter Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.29.0.30190	
Battery Type Error	30476	MNDRY_EVT_BATTERY_TYPE_ERROR	99MNDRY	1.30.1.30476	
RF Protocol Incompatible	30477	MNDRY_EVT_RF_PROTOCOL_INCOMP	99MNDRY	1.29.0.30477	
Vent Hardware Error	30478	MNDRY_EVT_VENT_HARDWARE_ERROR	99MNDRY	1.13.0.30478	
Vent INAD Convert Failure	30479	MNDRY_EVT_VENT_INAD_CONVERT_FAIL	99MNDRY	1.13.0.30479	
Vent EXAD Convert Failure	30480	MNDRY_EVT_VENT_EXAD_CONVERT_FAIL	99MNDRY	1.13.0.30480	

Vent 12V Error	30481	MNDRY_EVT_VENT_12V_ERROR	99MNDRY	1.13.0.30481	
Vent 5V Error	30482	MNDRY_EVT_VENT_5V_ERROR	99MNDRY	1.13.0.30482	
Vent Supply Pressure High	30483	MNDRY_EVT_VENT_SUPPLY_PRESSURE_HIGH	99MNDRY	1.13.0.30483	
Vent O2 Supply Failure	30484	MNDRY_EVT_VENT_O2_SUPPLY_FAILURE	99MNDRY	1.13.0.30484	
Vent Device Fault	30485	MNDRY_EVT_VENT_DEVICE_FAULT	99MNDRY	1.13.0.30485	
Vent Sustained PAW	30486	MNDRY_EVT_VENT_SUSTAINED_PAW	99MNDRY	1.13.0.30486	
Vent Negative Airway	30487	MNDRY_EVT_VENT_NEGATIVE_AIRWAY	99MNDRY	1.13.0.30487	
Vent Volm Apnea Long	30488	MNDRY_EVT_VENT_VOLM_APNEA_LONG	99MNDRY	1.13.0.30488	
Vent Bellow Open	30489	MNDRY_EVT_VENT_BELLOW_OPEN	99MNDRY	1.13.0.30489	
Vent AUX Outlet Open	30490	MNDRY_EVT_VENT_AUX_OUTLET_OPEN	99MNDRY	1.13.0.30490	
Vent PEEP Valve Fault	30491	MNDRY_EVT_VENT_PEEP_VALVE_FAULT	99MNDRY	1.13.0.30491	
Vent INSP Valve Fault	30492	MNDRY_EVT_VENT_INSP_VALVE_FAULT	99MNDRY	1.13.0.30492	
Vent PEEP Drive Fault	30493	MNDRY_EVT_VENT_PEEP_DRIVE_FAULT	99MNDRY	1.13.0.30493	
Vent Device Only	30494	MNDRY_EVT_VENT_DEVICE_ONLY	99MNDRY	1.13.0.30494	
Vent O2 Flush Fault	30495	MNDRY_EVT_VENT_O2_FLUSH_FAULT	99MNDRY	1.13.0.30495	
Vent O2 Mon Fault	30496	MNDRY_EVT_VENT_O2_MON_FAULT	99MNDRY	1.13.0.30496	
Vent Circuit Leak	30497	MNDRY_EVT_VENT_CIRCUIT_LEAK	99MNDRY	1.13.0.30497	

Vent Pressure Channel Fault	30498	MNDRY_EVT_VENT_PERSSURE_CHANNEL_FAULT	99MNDRY	1.13.0.30498	
Vent Volm Mon Disable	30499	MNDRY_EVT_VENT_VOLM_MON_DISABLE	99MNDRY	1.13.0.30499	
Vent Cal Flow Sensor	30500	MNDRY_EVT_VENT_CAL_FLOW_SENSOR	99MNDRY	1.13.0.30500	
Vent Cal PEEP Valve	30501	MNDRY_EVT_VENT_CAL_PEEP_VALVE	99MNDRY	1.13.0.30501	
Vent Cal O2 Sensor	30502	MNDRY_EVT_VENT_O2_SENSOR_REQ_CAL	99MNDRY	1.13.0.30502	
Vent Canister Open	30503	MNDRY_EVT_VENT_CANISTER_OPEN	99MNDRY	1.13.0.30503	
Vent O2 Sensor Unconnected	30504	MNDRY_EVT_VENT_O2_SENSOR_UNCONNECTED	99MNDRY	1.13.0.30504	
Vent Flow Sensor Fault	30505	MNDRY_EVT_VENT_FLOW_SENSOR_FAULT	99MNDRY	1.13.0.30505	
Vent VT Comp Disabled	30506	MNDRY_EVT_VENT_VT_COMP_DISABLED	99MNDRY	1.13.0.30506	
Vent Pinsp Not Achieved	30507	MNDRY_EVT_VENT_PINSP_NOT_ACHIEVED	99MNDRY	1.13.0.30507	
Vent VTE Exceed VTI	30508	MNDRY_EVT_VENT_VTE_EXCEED_VTI	99MNDRY	1.13.0.30508	
Vent VT High	30509	MNDRY_EVT_VENT_VT_HIGH	99MNDRY	1.13.0.30509	
Vent VT Low	30510	MNDRY_EVT_VENT_VT_LOW	99MNDRY	1.13.0.30510	
Vent Flow Sensor Zeroing Fail	30511	MNDRY_EVT_VENT_FLOW_SENSOR_ZEROING_FAIL	99MNDRY	1.13.0.30511	
Vent TRI Port Valve Error	30512	MNDRY_EVT_VENT_TRI_PORT_VALVE_ERROR	99MNDRY	1.13.0.30512	
RM Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.11.0.30189	

RM Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.11.0.30192	
RM Comm. Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.11.0.30191	
RM Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.11.0.202834	
RM Sensor Reserved	30513	MNDRY_EVT_RM_SENSOR_RESERVED	99MNDRY	1.11.0.30513	
RM User Calibration Fail	30514	MNDRY_EVT_RM_USER_CALIB_FAIL	99MNDRY	1.11.0.30514	
RM Factory Calibration Fail	30515	MNDRY_EVT_RM_FACTORY_CALIB_FAIL	99MNDRY	1.11.0.30515	
RM Zeroing	30516	MNDRY_EVT_RM_ZEROING	99MNDRY	1.11.0.30516	
RM Calib. Zero Failure	30552	MNDRY_EVT_RM_ZERO_FAILURE	99MNDRY	1.11.0.30552	
RM Calibrating	30517	MNDRY_EVT_RM_CALIBRATING	99MNDRY	1.11.0.30517	
RM Power Error	30518	MNDRY_EVT_RM_POWER_ERROR	99MNDRY	1.11.0.30518	
RM Checking	30519	MNDRY_EVT_RM_CHECKING	99MNDRY	1.11.0.30519	
RM Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.11.0.30201	
RM Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.11.0.30188	
RM Inner Sensor Fault	30520	MNDRY_EVT_RM_INNER_SENSRO_FAULT	99MNDRY	1.11.0.30520	
RM Artema Not Calibrate	30521	MNDRY_EVT_RM_ARTEMA_NOT_CALIB	99MNDRY	1.11.0.30521	
BIS Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.12.1.30189	
BIS Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.12.1.30192	

BIS Communication Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.12.1.30191	
BIS Interference	30522	MNDRY_EVT_BIS_INTERFERENCE	99MNDRY	1.12.1.30522	
BIS High Impedance	30523	MNDRY_EVT_BIS_HIGH_IMPEDANCE	99MNDRY	1.12.1.30523	
BIS Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.12.1.202834	
BIS DSC Error	30524	MNDRY_EVT_BIS_DSC_ERROR	99MNDRY	1.12.1.30524	
BIS DSC Malfunction	30525	MNDRY_EVT_BIS_DSC_MALFUNCTION	99MNDRY	1.12.1.30525	
BIS No Cable	30526	MNDRY_EVT_BIS_NO_CABLE	99MNDRY	1.12.1.30526	
BIS No Sensor	30527	MNDRY_EVT_BIS_NO_SENSOR	99MNDRY	1.12.1.30527	
BIS Sensor Error	30528	MNDRY_EVT_BIS_SENSOR_ERROR	99MNDRY	1.12.1.30528	
BIS SQI <50%	30529	MNDRY_EVT_BIS_SQI_LESS_THAN_50	99MNDRY	1.12.1.30529	
BIS SQI <15%	30530	MNDRY_EVT_BIS_SQI_LESS_THAN_15	99MNDRY	1.12.1.30530	
BIS Sensor Expired	30531	MNDRY_EVT_BIS_SENSOR_EXPIRED	99MNDRY	1.12.1.30531	
BIS Cyclic Checking	30532	MNDRY_EVT_BIS_CYCLIC_CHECKING	99MNDRY	1.12.1.30532	
BIS Ground Checking	30533	MNDRY_EVT_BIS_GROUND_CHECKING	99MNDRY	1.12.1.30533	
BIS Sensor Check Failed	30534	MNDRY_EVT_BIS_SNESOR_CHECK_FAIL	99MNDRY	1.12.1.30534	
BIS Sensor Exceed Usage	30535	MNDRY_EVT_BIS_SENSOR_EXCEED_USAGE	99MNDRY	1.12.1.30535	
BIS Sensor Fault	30536	MNDRY_EVT_BIS_SENSOR_FAULT	99MNDRY	1.12.1.30536	

BIS Need Replug	30537	MNDRY_EVT_BIS_NEED_REPLUG	99MNDRY	1.12.1.30537	
BIS In Demo	30538	MNDRY_EVT_BIS_IN_DEMO	99MNDRY	1.12.1.30538	
BISX Not Connected	30539	MNDRY_EVT_BISX_NOT_CONNECTED	99MNDRY	1.12.1.30539	
BIS Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.12.1.30201	
BIS Over Range	196774	MDC_EVT_RANGE_OVER	MDC	1.12.1.196774	
BIS Electrode Unconnected	30540	MNDRY_EVT_BIS_ELECTRODE_UNCONNECTED	99MNDRY	1.12.1.30540	
BIS Sensor Type Error	30541	MNDRY_EVT_BIS_SENSOR_TYPE_ERROR	99MNDRY	1.12.1.30541	
BIS Electrode High Imped	30542	MNDRY_EVT_BIS_ELECTRODE_HIGH_IMPED	99MNDRY	1.12.1.30542	
BIS Electrode Lead Off	30543	MNDRY_EVT_BIS_ELECTRODE_LEAD_OFF	99MNDRY	1.12.1.30543	
BIS Sensor Checking	30544	MNDRY_EVT_BIS_SENSOR_CHECKING	99MNDRY	1.12.1.30544	
Replace SRS Cable	30545	MNDRY_EVT_REPLACE_SRS_CABLE	99MNDRY	1.12.1.30545	
ICG Low Quality Signal	30546	MNDRY_EVT_ICG_LOW_QUALITY_SIGNAL	99MNDRY	1.6.3.30546	
ICG L.Neck Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.6.3.202834	
ICG R.Neck Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.6.3.202834	
ICG L.Thorax Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.6.3.202834	
ICG R.Thorax Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.6.3.202834	
ICG Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.6.3.202834	

ICG Electrode Off	30547	MNDRY_EVT_ICG_ELECTRODE_OFF	99MNDRY	1.6.3.30547	
ICG Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.6.3.30188	
ICG Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.6.3.30189	
ICG Communications Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.6.3.30191	
ICG Communications Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.6.3.30192	
ICG Sensor Check	30548	MNDRY_EVT_ICG_SENSOR_CHECK	99MNDRY	1.6.3.30548	
ICG Communications Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.6.3.30201	
ICG Cable Off	30549	MNDRY_EVT_ICG_CABLE_OFF	99MNDRY	1.6.3.30549	
ICG Low Voltage	30550	MNDRY_EVT_LOW_VOLTAGE	99MNDRY	1.6.3.30550	
ICG Cable Error	30551	MNDRY_EVT_CABLE_ERROR	99MNDRY	1.6.3.30551	
IBP Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.1.1－1.1.8.30183 1.1.11-1.1.12.30183 1.1.0.30183	IBP1-IBP8 pART,pCVP other IBP…
IBP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY	1.1.1－1.1.8.30553 1.1.11-1.1.12.30553 1.1.0.30553	IBP1-IBP8 pART,pCVP other IBP…
IBP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY	1.1.1－1.1.8.30554	IBP1-IBP8

				1.1.11-1.1.12.30554 1.1.0.30554	pART,pCVP other IBP…
IBP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.1.1－1.1.8.30192 1.1.11-1.1.12.30192 1.1.0.30192	IBP1-IBP8 pART,pCVP other IBP…
IBP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.1.1－1.1.8.30191 1.1.11-1.1.12.30191 1.1.0.30191	IBP1-IBP8 pART,pCVP other IBP…
IBP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.1.1－1.1.8.30189 1.1.11-1.1.12.30189 1.1.0.30189	IBP1-IBP8 pART,pCVP other IBP…
IBP Communication Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.1.1－1.1.8.30201 1.1.11-1.1.12.30201 1.1.0.30201	IBP1-IBP8 pART,pCVP other IBP…
IBP Searching Pulse	30555	MNDRY_EVT_IBP_SEARCHING_PULSE	99MNDRY	1.1.1－1.1.8.30555 1.1.11-1.1.12.30555 1.1.0.30555	IBP1-IBP8 pART,pCVP other IBP…

IBP No Pulse	30556	MNDRY_EVT_IBP_NO_PULSE	99MNDRY	1.1.1 – 1.1.8.30556 1.1.11-1.1.12.30556 1.1.0.30556	IBP1-IBP8 pART,pCVP other IBP…
IBP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY	1.1.1 – 1.1.8.30557 1.1.11-1.1.12.30557 1.1.0.30557	IBP1-IBP8 pART,pCVP other IBP…
IBP Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.1.1 – 1.1.8.30188 1.1.11-1.1.12.30188 1.1.0.30188	IBP1-IBP8 pART,pCVP other IBP…
CCO Unknown Tech. Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.6.2.30183	
CCO Checking Vigilance	30559	MNDRY_EVT_CCO_CHECKING_VAGILANCE	99MNDRY	1.6.2.30559	
Disconnect With Vigilance	30560	MNDRY_EVT_DISCONNECT_WITH_VIGILANCE	99MNDRY	1.6.2.30560	
Disconnect With Vigileo	30561	MNDRY_EVT_DISCONNECT_WITH_VIGILEO	99MNDRY	1.6.2.30561	
CCO Invalid Catheter	30562	MNDRY_EVT_CCO_INVALID_CATHETER	99MNDRY	1.6.2.30562	
CCO TB Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.6.2.202834	
PICCO Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.6.2.30188	
PICCO Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.6.2.30201	

PICCO Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.6.2.30192	
PICCO Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.6.2.30191	
PICCO Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.6.2.30189	
CCO Inject Temp Sensor Error	30759	MNDRY_EVT_CCO_TI_SENSOR_ERROR	99MNDRY	1.6.2.30759	
SCVO2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.4.1.30188	
SCVO2 Optical Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.4.1.30188	
SCVO2 Signal Too High	30563	MNDRY_EVT_SCVO2_SIGNAL_TOO_HIGH	99MNDRY	1.4.1.30563	
SCVO2 Signal Too Low	30564	MNDRY_EVT_SCVO2_SIGNAL_TOO_LOW	99MNDRY	1.4.1.30564	
SCVO2 Too Much Light	30565	MNDRY_EVT_SCVO2_TOO_MUCH_LIGHT	99MNDRY	1.4.1.30565	
SCVO2 Disconnected	30566	MNDRY_EVT_SCVO2_DISCONNECTED	99MNDRY	1.4.1.30566	
SCVO2 Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.4.1.30201	
SCVO2 Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.4.1.30192	
SCVO2 Comm. Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.4.1.30191	
SCVO2 Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.4.1.30189	
Unsupported CeVOX version	30567	MNDRY_EVT_UNSUPPORTED_CEVOX_VER	99MNDRY	1.4.1.30567	
TB Out of Range	196774	MDC_EVT_RANGE_OVER	MDC	1.6.2.196774	
TI Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.6.2.202834	

TI Out of Range	196774	MDC_EVT_RANGE_OVER	MDC	1.6.2.196774	
Invalid CCO Calibration	30568	MNDRY_EVT_INVALID_CCO_CALIB	99MNDRY	1.6.2.30568	
TB Calibration Error	30569	MNDRY_EVT_TB_CALIB_ERROR	99MNDRY	1.6.2.30569	
TI Calibration Error	30570	MNDRY_EVT_TI_CALIB_ERRO	99MNDRY	1.6.2.30570	
CCO TI Error	30571	MNDRY_EVT_CCO_TI_ERRO	99MNDRY	1.6.2.30571	
Benelink Conflict	30572	MNDRY_EVT_BANELINK_CONFLICT	99MNDRY	1.27.0.30572	
Benelink Comm. Abnormal	30201	MNDRY_EVT_COMM_ABNORMAL	99MNDRY	1.27.0.30201	
Benelink Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.27.0.30191	
Benelink Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.27.0.30189	
BeneLink Searching Signal	30573	MNDRY_EVT_SEARCHING_SIGNAL	99MNDRY	1.27.0.30573	
IPMT No Battery	30130	MNDRY_EVT_BATT_MISSING	99MNDRY	1.28.0.30130	
T1 No Battery	30130	MNDRY_EVT_BATT_MISSING	99MNDRY	1.28.0.30130	
TCGAS Low Battery	196802	MDC_EVT_BATT_LO	MDC	1.15.1.196802	
TCGAS Critically Low Battery	30426	MNDRY_EVT_CRITICALLY_LOW_BATTERY	99MNDRY	1.15.1.30426	
TCGAS Temp High	30578	MNDRY_EVT_TCGAS_TEMP_HIGH	99MNDRY	1.15.1.30578	
TCGAS Unknown Tech Alarm	30183	MNDRY_EVT_ALM_TECH_UNKNOWN_CHANNEL	99MNDRY	1.15.1.30183	
EEG Sensor Off	30024	MNDRY_EVT_EEG_SENSOR_OFF	99MNDRY	1.17.0.30024	EEG Sensor Off

EEG Electrode *** Off	30025	MNDRY_EVT_EEG_ELECTRODE_OFF	99MNDRY	1.17.1-1.17.4.30025	Uses two electode locations from Location table in OBX-20:459793^ MDC_HEAD_FRONT_POLAR_L^MDC~459809^ MDC_HEAD_FRONT_L_3^MDC
EEG Electrode *** High Imped	30026	MNDRY_EVT_EEG_ELECTRODE_HIGH_IMPED	99MNDRY	1.17.1-1.17.4.30026	Same as above
EEG Electrode *** Noise	30027	MNDRY_EVT_EEG_ELECTRODE_NOISE	99MNDRY	1.17.1-1.17.4.30027	Same as above
EEG Electrode *** Poor Contact	30110	MNDRY_EVT_EEG_ELECTRODE_POOR_CONTACT	99MNDRY	1.17.1-1.17.4.30110	Same as above
EEG No Sensor	30028	MNDRY_EVT_EEG_NO_SENSOR	99MNDRY	1.17.0.30028	
EEG Init Err	30029	MNDRY_EVT_EEG_INIT_ERROR	99MNDRY	1.17.0.30029	
EEG Comm. Err	30030	MNDRY_EVT_EEG_COMM_ERROR	99MNDRY	1.17.0.30030	
EEG Comm. Stop	30031	MNDRY_EVT_EEG_COMM_STOP	99MNDRY	1.17.0.30031	
EEG Comm. Abnormal	30032	MNDRY_EVT_EEG_COMM_ABNORMAL	99MNDRY	1.17.0.30032	
EEG Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.17.0.30188	
EEG Overcurrent	30033	MNDRY_EVT_EEG_OVER_CURRENT	99MNDRY	1.17.0.30033	

EEG Calibration	30580	MNDRY_EVT_EEG_CLIAB	99MNDRY	1.17.0.30580	
EEG Sensor Checking	30034	MNDRY_EVT_EEG_SENSOR_CHECKING	99MNDRY	1.17.0.30034	
RSO2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.24.0.30188	RSO2/RSO2 2
RSO2 *** No Sensor	30581	MNDRY_EVT_RSO2_NO_SENSOR	99MNDRY	1.24.1-1.24.4.30581	RSO2 CH1,RSO2 CH2, RSO2 2 CH1, RSO2 2 CH2
RSO2 *** Exceed Light	30582	MNDRY_EVT_RSO2_EXCEED_LIGHT	99MNDRY	1.24.1-1.24.4.30582	RSO2 CH1,RSO2 CH2, RSO2 2 CH1, RSO2 2 CH2
RSO2 No Preamplifier	30583	MNDRY_EVT_RSO2_NO_PREAMPLIFIER	99MNDRY	1.24.1-1.24.4.30583	RSO2/RSO2 2
RSO2 *** Replace Sensor	30654	MNDRY_EVT_RSO2_REPLACE_SENSOR	99MNDRY	1.24.1-1.24.4.30654	RSO2 CH1,RSO2 CH2, RSO2 2 CH1, RSO2 2 CH2
RSO2 Interference	30584	MNDRY_EVT_RSO2_INTERFERENCE	99MNDRY	1.24.0.30584	RSO2/RSO2 2
RSO2 *** Auto Baseline	30585	MNDRY_EVT_RSO2_AUTO_BASELINE	99MNDRY	1.24.1-1.24.4.30585	RSO2 CH1,RSO2 CH2, RSO2 2 CH1, RSO2 2 CH2
RSO2 Need Replug	30586	MNDRY_EVT_RSO2_NEED_REPLUG	99MNDRY	1.24.0.30586	RSO2/RSO2 2
RSO2 *** Poor Signal	30587	MNDRY_EVT_RSO2_POOR_SIGNAL	99MNDRY	1.24.1-1.24.4.30587	RSO2 CH1,RSO2 CH2, RSO2 2 CH1, RSO2 2 CH2
Telemetry Signal Lost	196676	MDC_EVT_LOST	MDC	1.29.0.196676	

Telemetry Data Interrupted	30588	MNDRY_EVT_DATA_INTERRUPTED	99MNDRY	1.29.0.30588	
Communications Lost	196748	MDC_EVT_COMM_LOST	MDC	1.0.0.196748	
Standby	202774	MDC_EVT_STAT_STANDBY_MODE	MDC	1.0.0.202774	
DHCP Fetching IP Time Out	30680	MNDRY_EVT_DHCP_FETCHING_IP_TIME_OUT	99MNDRY	1.0.0.30680	
TP Disconnect From Paired Device	30681	MNDRY_EVT_TP_DISCONNECT_FROM_PAIRED_DEVICE	99MNDRY	1.0.0.30681	
Device Error For TP	30682	MNDRY_EVT_DEVICE_ERROR_FOR_TP	99MNDRY	1.0.0.30682	
TP Battery Low	196802	MDC_EVT_BATT_LO	MDC	1.0.0.196802	
BP Battery Error	30430	MNDRY_EVT_BATTERY_ERROR	99MNDRY	1.0.0.30430	
BP Battery Type Error	30476	MNDRY_EVT_BATTERY_TYPE_ERROR	99MNDRY	1.0.0.30476	
IP Conflict	30683	MNDRY_EVT_IP_CONFLICT	99MNDRY	1.0.0.30683	
MPAN Disconnect	30684	MNDRY_EVT_MPAN_DISCONNECT	99MNDRY	1.0.0.30684	
Check Lead Connections	203298	MDC_EVT_ADVIS_LEAD_CHK	MDC	1.0.0.203298	
Printer Door is Open	197084	MDC_EVT_DOOR_POSN_ERR	MDC	1.0.0.197084	
MPM Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.0.0.30188	
ANES Unknown Tech Alarm	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY	1.14.0.30652	
ANES Patient Circuit Leak	30589	MNDRY_EVT_ANES_PAT_CIRCUIT_LEAK	99MNDRY	1.14.0.30589	

ANES No O2 Sensor	30590	MNDRY_EVT_ANES_NO_O2_SENSOR	99MNDRY	1.14.0.30590	
ANES Drive Gas Pressure Low	30591	MNDRY_EVT_ANES_DIRVE_GAS_PRESSURE_LOW	99MNDRY	1.14.0.30591	
ANES O2 Supply Failure	30592	MNDRY_EVT_ANES_O2_SUPPLY_FAILURE	99MNDRY	1.14.0.30592	
ANES Battery in Use	202884	MDC_EVT_STAT_DEV_BATT_OPERATED	MDC	1.14.0.202884	
ANES Check APL Valve	30594	MNDRY_EVT_ANES_CHECK_APL_VALVE	99MNDRY	1.14.0.30594	
ANES Check Expiration-Valve	30595	MNDRY_EVT_ANES_CHECK_EXPIRATION_VALVE	99MNDRY	1.14.0.30595	
ANES Check Fresh Gas Supply	30596	MNDRY_EVT_ANES_CHECK_FRESH_GAS_SUPPLY	99MNDRY	1.14.0.30596	
ANES No Fresh Gas	30597	MNDRY_EVT_ANES_NO_FRESH_GAS	99MNDRY	1.14.0.30597	
ANES Circuit Occluded	30598	MNDRY_EVT_ANES_CIRCUIT_OCCLUDED	99MNDRY	1.14.0.30598	
ANES VENT DISC	30599	MNDRY_EVT_ANES_VENT_DISC	99MNDRY	1.14.0.30599	
ANES No Air	30600	MNDRY_EVT_ANES_NO_AIR	99MNDRY	1.14.0.30600	
ANES No O2 Supply	30601	MNDRY_EVT_ANES_NO_O2_SUPPLY	99MNDRY	1.14.0.30601	
ANES CO2 Module abnormal	30606	MNDRY_EVT_ANES_CO2_MODULE_ABNORMAL	99MNDRY	1.14.0.30606	
ANES AG Module abnormal	30607	MNDRY_EVT_ANES_AG_MODULE_ABNORMAL	99MNDRY	1.14.0.30607	
ANES BIS Module abnormal	30608	MNDRY_EVT_ANES_BIS_MODULE_ABNORMAL	99MNDRY	1.14.0.30608	

ANES SpO2 Module abnormal	30609	MNDRY_EVT_ANES_SPO2_MODULE_ABNORMAL	99MNDRY	1.14.0.30609	
Auto-zero In Process	30655	MNDRY_EVT_ANES_AUTO_ZERO_IN_PROCESS	99MNDRY	1.14.0.30655	
Apnea Ventilation	30656	MNDRY_EVT_ANES_APNEA_VENTILATION	99MNDRY	1.14.0.30656	
Ventilator Voltage Error	30657	MNDRY_EVT_ANES_VENTILATOR_VOLTAGE_ERR	99MNDRY	1.14.0.30657	
PEEP Valve Failure	30658	MNDRY_EVT_ANES_PEEP_VAVLE_FAILURE	99MNDRY	1.14.0.30658	
Insp Valve Failure	30661	MNDRY_EVT_ANES_INSP_VALVE_FAILURE	99MNDRY	1.14.0.30661	
PEEP Safety Valve Failure	30662	MNDRY_EVT_ANES_PEEP_SAFETY_VALVE_FAILURE	99MNDRY	1.14.0.30662	
Flow Sensor Failure	30663	MNDRY_EVT_ANES_FLOW_SENSOR_FAILURE	99MNDRY	1.14.0.30663	
Check Flow Sensors	30664	MNDRY_EVT_ANES_CHECK_FLOW_SENSORS	99MNDRY	1.14.0.30664	
Pinsp Not Achieved	30665	MNDRY_EVT_ANES_PINSP_NOT_ACHIEVED	99MNDRY	1.14.0.30665	
Vt Not Achieved	30666	MNDRY_EVT_ANES_VT_NOT_ACHIEVED	99MNDRY	1.14.0.30666	
CO2 Canister Not Mounted	30667	MNDRY_EVT_ANES_CO2_CANISTER_NOT_MOUNTED	99MNDRY	1.14.0.30667	
Replace O2 Sensor	30668	MNDRY_EVT_ANES_REPLACE_O2_SENSOR	99MNDRY	1.14.0.30668	
Calibrate O2 Sensor	30670	MNDRY_EVT_ANES_CALIBRATE_O2_SENSOR	99MNDRY	1.14.0.30670	
Ventilator Comm. Stop	30671	MNDRY_EVT_ANES_VENTILATOR_COMM_STOP	99MNDRY	1.14.0.30671	

ACGO with 3-way Valve Failure	30686	MNDRY_EVT_ANES_ACGO_3WAY_VALVE_FAILURE	99MNDRY	1.14.0.30686	
ACGO Failure	30687	MNDRY_EVT_ANES_ACGO_FAILURE	99MNDRY	1.14.0.30687	
Aux Ctrl Module Comm. Stop	30688	MNDRY_EVT_ANES_AUX_MODULE_COMM_STOP	99MNDRY	1.14.0.30688	
Monitor channel paw error	30689	MNDRY_EVT_ANES_MONITOR_CHANNEL_PAW_ERR	99MNDRY	1.14.0.30689	
Aux Ctrl Module Monitor channel paw error	30690	MNDRY_EVT_AUX_CTRL_MONITOR_CHANNEL_PAW_ERR	99MNDRY	1.14.0.30690	
Aux Ctrl Module voltage error	30691	MNDRY_EVT_ANES_AUX_VOLTAGE_ERR	99MNDRY	1.14.0.30691	
Drive Gas Switch vavle failure	30692	MNDRY_EVT_ANES_DRIVE_GAS_SWITCH_VALVE_FAILURE	99MNDRY	1.14.0.30692	
Anes. Cooling Fan Failure	197148	MDC_EVT_VENT_TEMP_HI	MDC	1.14.0.197148	
Automatic Ventilation Disabled	30694	MNDRY_EVT_ANES_AUTOMATIC_VENT_DISABLED	99MNDRY	1.14.0.30694	
Auto Ventilation Disabled-Leak Test Failed	30695	MNDRY_EVT_ANES_AUTO_VENT_DISABLED_LEAK_FAIL	99MNDRY	1.14.0.30695	
Auto Ventilation is Non-functional	30696	MNDRY_EVT_ANES_AUTO_VENT_NON_FUNCTIONAL	99MNDRY	1.14.0.30696	

Incompatible AG Software Version	30697	MNDRY_EVT_ANES_INCOMPATIBLE_AG_SW	99MNDRY	1.14.0.30697	
Electronic ACGO Undetected	30698	MNDRY_EVT_ANES_NO_ELEC_ACGO	99MNDRY	1.14.0.30698	
Anes. Key Error	30699	MNDRY_EVT_ANES_KEY_ERR	99MNDRY	1.14.0.30699	
Load Configuration Failed	30700	MNDRY_EVT_ANES_LOAD_CFG_FAILED	99MNDRY	1.14.0.30700	
Pressure, Volume and Apnea Alarms are OFF	30701	MNDRY_EVT_ANES_MANUAL_ALARM_OFF	99MNDRY	1.14.0.30701	
Demo Mode - Not for Clinical Use	30702	MNDRY_EVT_ANES_DEMO_MODE	99MNDRY	1.14.0.30702	
Service Mode - Not for Clinical Use	30703	MNDRY_EVT_ANES_SERVICE_MODE	99MNDRY	1.14.0.30703	
Could not locate time server	30704	MNDRY_EVT_ANES_NET_TIME_SERVER_DISCONNECT	99MNDRY	1.14.0.30704	
Restart to Activate New Flowmeter Standard	30705	MNDRY_EVT_ANES_FLOWMETER_CHANGE_NEED_RESTART	99MNDRY	1.14.0.30705	
New functions activated, please restart	30706	MNDRY_EVT_ANES_FUNC_ACTIVATE_NEED_RESTART	99MNDRY	1.14.0.30706	

Calibrate O2 sensor for 21%	30707	MNDRY_EVT_ANES_CAL_O2_FOR_21	99MNDRY	1.14.0.30707	
Calibrate O2 sensor for 100%	30708	MNDRY_EVT_ANES_CAL_O2_FOR_100	99MNDRY	1.14.0.30708	
CO2 and CO2 Apnea Alarms are OFF	30709	MNDRY_EVT_ANES_MANUAL_CO2_ALARM_OFF	99MNDRY	1.14.0.30709	
Leak Test Not Performed	30710	MNDRY_EVT_ANES_LEAK_TEST_PREVENTION	99MNDRY	1.14.0.30710	
Drive Gas Switched to O2	30711	MNDRY_EVT_ANES_DRIVE_GAS_TO_O2	99MNDRY	1.14.0.30711	
Drive Gas Switched to AIR	30712	MNDRY_EVT_ANES_DRIVE_GAS_TO_AIR	99MNDRY	1.14.0.30712	
Heating Module Failure	30713	MNDRY_EVT_ANES_HEATING_MODULE_FAILURE	99MNDRY	1.14.0.30713	
Power Circuit Not Mounted	30714	MNDRY_EVT_ANES_POWER_CIRCUIT_NO_MOUNT	99MNDRY	1.14.0.30714	
Flowmeter Voltage Error	30715	MNDRY_EVT_ANES_FLOWMETER_VOLTAGE_ERR	99MNDRY	1.14.0.30715	
O2-N2O Ratio Error	30719	MNDRY_EVT_ANES_O2_N2O_RATIO_ERR	99MNDRY	1.14.0.30719	
Flowmeter Comm. Stop	30720	MNDRY_EVT_ANES_FLOWMETER_COMM_STOP	99MNDRY	1.14.0.30720	
Internal N2O Sensor Fail	30721	MNDRY_EVT_ANES_INTERNAL_N2O_SENSOR_ERR	99MNDRY	1.14.0.30721	
Internal O2 Sensor Fail	30722	MNDRY_EVT_ANES_INTERNAL_O2_SENSOR_ERR	99MNDRY	1.14.0.30722	
Internal Air Sensor Fail	30723	MNDRY_EVT_ANES_INTERNAL_AIR_SENSOR_ER	99MNDRY	1.14.0.30723	

		R			
Cal Data Error	30724	MNDRY_EVT_ANES_CAL_DATA_ERR	99MNDRY	1.14.0.30724	
Flowmeter Zero Failed	30726	MNDRY_EVT_ANES_FLOWMETER_ZERO_FAIL	99MNDRY	1.14.0.30726	
Electronic Flow Control Error	30727	MNDRY_EVT_ANES_ELEC_FLOW_CTRL_ERR	99MNDRY	1.14.0.30727	
Backup Flow Control Error	30728	MNDRY_EVT_ANES_BACKUP_FLOW_CRTL_ERR	99MNDRY	1.14.0.30728	
No Fresh Gas	30729	MNDRY_EVT_ANES_NO_FRESH_GAS	99MNDRY	1.14.0.30729	
Backup Flow Control Deployment Failure	30730	MNDRY_EVT_ANES_BACKUP_FLOW_DEP_ERR	99MNDRY	1.14.0.30730	
Backup Flow Control Retraction Failure	30731	MNDRY_EVT_ANES_BACKUP_FLOW_RET_ERR	99MNDRY	1.14.0.30731	
Air Supply Failure	30732	MNDRY_EVT_ANES_AIR_SUPPLY_FAIL	99MNDRY	1.14.0.30732	
N2O Supply Failure	30733	MNDRY_EVT_ANES_N2O_SUPPLY_FAIL	99MNDRY	1.14.0.30733	
Backup Flow Control Valves Open	30734	MNDRY_EVT_ANES_BACKUP_FLOW_VALVE_OPEN	99MNDRY	1.14.0.30734	
Backup Flow Control is enabled	30735	MNDRY_EVT_ANES_BACKUP_FLOW_ENABLED	99MNDRY	1.14.0.30735	
O2 Branch Flow Not Achieved	30736	MNDRY_EVT_ANES_O2_FLOW_UNACHIEVED	99MNDRY	1.14.0.30736	
Balance Gas Branch Flow Not	30737	MNDRY_EVT_ANES_GAS_FLOW_UNACHIEVED	99MNDRY	1.14.0.30737	

Achieved					
Total Flow Sensor Self Test Time Out	30738	MNDRY_EVT_ANES_FLOW_SENSOR_SELFT_TIMEOUT	99MNDRY	1.14.0.30738	
Total Flow Sensor Self Test in Progress	30739	MNDRY_EVT_ANES_FLOW_SENSOR_IN_SELFTEST	99MNDRY	1.14.0.30739	
Internal AG Error	30740	MNDRY_EVT_ANES_INTERNAL_AG_ERR	99MNDRY	1.14.0.30740	
Internal AG Warm up	30741	MNDRY_EVT_ANES_INTERNAL_AG_WARMUP	99MNDRY	1.14.0.30741	
O2 Sensor Error	30744	MNDRY_EVT_ANES_O2_SENSOR_ERR	99MNDRY	1.14.0.30744	
AG Hardware Malfunction	30745	MNDRY_EVT_ANES_AG_HARDWARE_MALFUNCION	99MNDRY	1.14.0.30745	
Rate Over Range	30746	MNDRY_EVT_ANES_RATE_OVER_RANGE	99MNDRY	1.14.0.30746	
External AG Loaded Successfully	30747	MNDRY_EVT_ANES_EXT_AG_LOADED	99MNDRY	1.14.0.30747	
External AG Zeroing	30748	MNDRY_EVT_ANES_EXT_AG_ZEROING	99MNDRY	1.14.0.30748	
External AG Unloaded Successfully	30749	MNDRY_EVT_ANES_EXT_AG_UNLOADED	99MNDRY	1.14.0.30749	
BIS Self Test Error	30750	MNDRY_EVT_ANES_BIS_SELFTEST_ERR	99MNDRY	1.14.0.30750	

CO2 Loaded Successfully	30751	MNDRY_EVT_ANES_CO2_LOADED	99MNDRY	1.14.0.30751	
CO2 Unloaded Successfully	30752	MNDRY_EVT_ANES_CO2_UNLOADED	99MNDRY	1.14.0.30752	
CO2 Self Test Time out	30753	MNDRY_EVT_ANES_CO2_SELTTEST_TIME_OUT	99MNDRY	1.14.0.30753	
CO2 Replace Sensor	30754	MNDRY_EVT_ANES_CO2_REPLACE_SENSOR	99MNDRY	1.14.0.30754	
Incompatible CO2 Software Version	30755	MNDRY_EVT_ANES_INCOMPATIBLE_CO2_SW	99MNDRY	1.14.0.30755	
Mixed Agent and MAC >= 3	30103	MNDRY_EVT_MAXMAC_MORE_3	99MNDRY	1.14.0.30103	
ANES MAC Low	30045	MNDRY_EVT_ANES_MAC_LOW	99MNDRY	1.14.0.30045	
Invalid MAC value and mixed agent	30743	MNDRY_EVT_ANES_INVALID_MAC_VALUE	99MNDRY	1.14.0.30743	
Fresh Gas Flow Too High	30685	MNDRY_EVT_ANES_FRESH_GAS_FLOW_HI	99MNDRY	1.14.0.30685	
N2O Flow Too High	30716	MNDRY_EVT_ANES_N2O_FLOW_HI	99MNDRY	1.14.0.30716	
O2 Flow Too High	30717	MNDRY_EVT_ANES_O2_FLOW_HI	99MNDRY	1.14.0.30717	
Air Flow Too High	30718	MNDRY_EVT_ANES_AIR_FLOW_HI	99MNDRY	1.14.0.30718	
NMT Loaded Successfully	30757	MNDRY_EVT_NMT_LOADED	99MNDRY	1.16.0.30757	
NMT Unloaded Successfully	30758	MNDRY_EVT_NMT_UNLOADED	99MNDRY	1.16.0.30758	
VENT Unknown Tech Alarm	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY	1.13.0.30652	

VENT Air Supply Pressure Low	30610	MNDRY_EVT_VENT_AIR_SUPPLY_PRESSURE_LOW	99MNDRY	1.13.0.30610	
VENT O2 Supply Pressure Low	30611	MNDRY_EVT_VENT_O2_SUPPLY_PRESSURE_LOW	99MNDRY	1.13.0.30611	
VENT No Gas Supply Pressure	30612	MNDRY_EVT_VENT_NO_GAS_SUPPLY_PRESSURE	99MNDRY	1.13.0.30612	
VENT Airway Obstructed	30613	MNDRY_EVT_VENT_AIRWAY_OBSTRUCTED	99MNDRY	1.13.0.30613	
VENT Tube Disconnected	30614	MNDRY_EVT_VENT_TUBE_DISCONNECTED	99MNDRY	1.13.0.30614	
VENT Airway Leak	30615	MNDRY_EVT_VENT_AIRWAY_LEAK	99MNDRY	1.13.0.30615	
VENT Battery In Use	30616	MNDRY_EVT_VENT_BETTERY_INUSE	99MNDRY	1.13.0.30616	
VENT Check Flow Sensors	30617	MNDRY_EVT_VENT_CHECK_FLOW_SENSOR	99MNDRY	1.13.0.30617	
VENT Check Expiration-Valve	30618	MNDRY_EVT_VENT_CHECK_EXPIRATION_VALVE	99MNDRY	1.13.0.30618	
VENT Clean CO2	30619	MNDRY_EVT_VENT_CLEAN_CO2	99MNDRY	1.13.0.30619	
VENT Drive Gas Pressure Low	30620	MNDRY_EVT_VENT_DRIVE_GAS_PRESSURE_LOW	99MNDRY	1.13.0.30620	
VENT Patient Circuit Leak	30621	MNDRY_EVT_VENT_PAT_CIRCUIT_LEAK	99MNDRY	1.13.0.30621	
VENT Neo Flow Sensor Error	30622	MNDRY_EVT_VENT_NEO_FLOW_SENSOR_ERROR	99MNDRY	1.13.0.30622	

VENT O2 and air supply	30623	MNDRY_EVT_VENT_O2_AIR_SUPPLY	99MNDRY	1.13.0.30623	
VENT O2 and heliox supply	30624	MNDRY_EVT_VENT_O2_HELIOX_SUPPLY	99MNDRY	1.13.0.30624	
VENT Sustained Airway Pressure"	30625	MNDRY_EVT_VENT_SUSTAINED_AIRWAY_PRESSURE	99MNDRY	1.13.0.30625	
VENT Insp gas temperature too high	30626	MNDRY_EVT_VENT_INSP_GAS_TEMP_TOO_HIGH	99MNDRY	1.13.0.30626	
VENT Tinsp too Long	30627	MNDRY_EVT_VENT_TINSP_TOO_LONG	99MNDRY	1.13.0.30627	
VENT CO2 No Watertrap	30628	MNDRY_EVT_VENT_CO2_NO_WATERTRAP	99MNDRY	1.13.0.30628	
VENT No VO2, High FiN2O	30629	MNDRY_EVT_VENT_NO_VO2_HIGH_FIN2O	99MNDRY	1.13.0.30629	
VENT No O2 Pressure	30630	MNDRY_EVT_VENT_NO_O2_PRESSURE	99MNDRY	1.13.0.30630	
VENT No Fresh Gas Flow	30631	MNDRY_EVT_VENT_NO_FRESH_GAS_FLOW	99MNDRY	1.13.0.30631	
VENT No VO2, FiO2 > 85%	30632	MNDRY_EVT_VENT_NO_VO2_FIO2_MORETHAN_85	99MNDRY	1.13.0.30632	
VENT MGAS Replace Water Trap	30633	MNDRY_EVT_VENT_MGAS_REPLACE_WATERTRAP	99MNDRY	1.13.0.30633	
VENT 12-Hour Test	30634	MNDRY_EVT_VENT_12HOUR_TEST	99MNDRY	1.13.0.30634	
VENT Patient Connected	30635	MNDRY_EVT_VENT_PAT_CONNECTED	99MNDRY	1.13.0.30635	Patient connected in standby

VENT Negative Airway Pressure	30636	MNDRY_EVT_VENT_NEGATIVE_AIRWAY_PRESSURE	99MNDRY	1.13.0.30636	
VENT Circuit Leak	30637	MNDRY_EVT_VENT_CIRCUIT_LEAK	99MNDRY	1.13.0.30637	
VENT Patient Connection Leak	30638	MNDRY_EVT_VENT_PAT_CONNECTION_LEAK	99MNDRY	1.13.0.30638	
VENT Patient Disconnected	30639	MNDRY_EVT_VENT_PAT_DISCONNECTED	99MNDRY	1.13.0.30639	
VENT O2 Cell Disconnect	30640	MNDRY_EVT_VENT_O2_CELL_DISCONNECT	99MNDRY	1.13.0.30640	
VENT Check Tubing	30641	MNDRY_EVT_VENT_CHECK_TUBING	99MNDRY	1.13.0.30641	
VENT Disconnect Ventilator Side	30642	MNDRY_EVT_VENT_DISCONNECT_VENTILATOR_SIDE	99MNDRY	1.13.0.30642	
VENT O2 Cell Cal. Needed	30643	MNDRY_EVT_VENT_O2_CELL_CAL_NEEDED	99MNDRY	1.13.0.30643	
VENT Circuit Disconnected	30644	MNDRY_EVT_VENT_CIRCUIT_DISCONNECTED	99MNDRY	1.13.0.30644	
VENT Power Failure	30645	MNDRY_EVT_VENT_POWER_FAILURE	99MNDRY	1.13.0.30645	
VENT Tinsp too Short	30646	MNDRY_EVT_VENT_TINSP_TOO_SHORT	99MNDRY	1.13.0.30646	
VENT FiO2 Sensor Disconnected	30647	MNDRY_EVT_VENT_FIO2_SENSOR_DISCONNECTED	99MNDRY	1.13.0.30647	
Unknown Tech Alarm	30652	MNDRY_EVT_UNKNOWN_TECH_ALM	99MNDRY	1.0.0.30652	

Appendix E –D-Series Monitors HL7 Export Nomenclature

E.1 Supported Enumerated Values

Table Boolean

Value	OBX-5.1	OBX-5.2	OBX-5.3	Comment
True	30000	MNDRY_TRUE	99MNDRY	
False	30001	MNDRY_FALSE	99MNDRY	

Table Device Status

Value	OBX-5.1	OBX-5.2	OBX-5.3	Comment
Off	202834	MDC_EVT_STAT_OFF	MDC	
Running	202902	MDC_EVT_STAT_RUNNING	MDC	
Standby	202836	MDC_EVT_STAT_STANDBY	MDC	

Table Pacer Mode

Value	OBX-5.1	OBX-5.2	OBX-5.3	Comment
As required	60043	MNDRY_PACE_MODE_AS_REQUIRED	99MNDRY	
Fixed	60044	MNDRY_PACE_MODE_FIXED	99MNDRY	

Table Defib Mode

Value	OBX-5.1	OBX-5.2	OBX-5.3	Comment
DFIB Monitor Mode	50024	MNDRY_DFIB_MODE_MONITOR	99MNDRY	
DFIB Pace Mode	50025	MNDRY_DFIB_MODE_PACE	99MNDRY	
DFIB Manual Defibrillation Mode	50026	MNDRY_DFIB_MODE_MANUAL_DEFIB	99MNDRY	
DFIB AED Mode	50027	MNDRY_DFIB_MODE_AED	99MNDRY	
DFIB Configuration Mode	50028	MNDRY_DFIB_MODE_CONFIG	99MNDRY	
DFIB Self-Check Mode	50029	MNDRY_DFIB_MODE_SELF_CHECK	99MNDRY	
DFIB Archive Management Mode	50030	MNDRY_DFIB_MODE_ARCHIVE_MANAGE	99MNDRY	
DFIB User Maintanance Mode	50031	MNDRY_DFIB_MODE_USER_MAINTANENCE	99MNDRY	
DFIB Factory Maintanance Mode	50032	MNDRY_DFIB_MODE_FACTORY_MAINTANENCE	99MNDRY	
DFIB Off Mode	50033	MNDRY_DFIB_MODE_OFF	99MNDRY	

E.2 Supported Observations Parameter

Table ECG Observation Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
ECG Heart Rate	NM	147842	MDC_ECG_HEART_RATE	MDC	1.7.4.147842	MDC_DIM_BEAT_PER_MIN
Transthoracic Respiration Rate	NM	151578	MDC_TTHOR_RESP_RATE	MDC	1.7.1.151578	MDC_DIM_RESP_PER_MIN
PVCs/min	NM	148066	MDC_ECG_V_P_C_RATE	MDC	1.7.2.148066	MDC_DIM_BEAT_PER_MIN

Table SPO2 Observation Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
SpO2 Saturation	NM	150456	MDC_PULS_OXIM_SAT_O2	MDC	1.3.1.150456	MDC_DIM_PERCENT
SpO2 Pulse Rate	NM	149530	MDC_PULS_OXIM_PULS_RATE	MDC	1.3.1.149530	MDC_DIM_BEAT_PER_MIN
SpO2 Perfusion Index	NM	150488	MDC_BLD_PERF_INDEX	MDC	1.3.1.150488	MDC_DIM_PERCENT

Table Blood Pressure Observation Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
IBP Systolic, Channel 1-2	NM	150017	MDC_PRESS_BLD_SYS	MDC	1.1.1.150017-1.1.2.150017	MDC_DIM_MMHG
IBP Diastolic, Channel 1-2	NM	150018	MDC_PRESS_BLD_DIA	MDC	1.1.1.150018-1.1.2.150018	MDC_DIM_MMHG
IBP Mean, Channel 1-2	NM	150019	MDC_PRESS_BLD_MEAN	MDC	1.1.1.150019-1.1.2.150019	MDC_DIM_MMHG
IBP Pulse Rate, Channel	NM	149522	MDC_BLD_PULS_RATE_INV	MDC	1.1.1.149522-1.1.2.149522	MDC_DIM_BEAT_PER_MIN

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
1-2						
ART Systolic, Channel	NM	150037	MDC_PRESS_BLD_ART_ABP_SYS	MDC	1.1.1.150037	MDC_DIM_MMHG
ART Diastolic, Channel	NM	150038	MDC_PRESS_BLD_ART_ABP_DIA	MDC	1.1.1.150038	MDC_DIM_MMHG
ART Mean, Channel	NM	150039	MDC_PRESS_BLD_ART_ABP_MEAN	MDC	1.1.1.150039	MDC_DIM_MMHG
ART pulse rate	NM	364	MNDRY_BLD_PULS_RATE_ART_ABP	99MNDRY	1.1.1.364	MDC_DIM_BEAT_PER_MIN
UA Systolic, Channel	NM	150057	MDC_PRESS_BLD_ART_UMB_SYS	MDC	1.1.1.150057	MDC_DIM_MMHG
UA Diastolic, Channel	NM	150058	MDC_PRESS_BLD_ART_UMB_DIA	MDC	1.1.1.150058	MDC_DIM_MMHG
UA Mean, Channel	NM	150059	MDC_PRESS_BLD_ART_UMB_MEAN	MDC	1.1.1.150059	MDC_DIM_MMHG
UA Pulse Rate	NM	365	MNDRY_BLD_PULS_RATE_ART_UMB	99MNDRY	1.1.1.365	MDC_DIM_BEAT_PER_MIN
PA Systolic, Channel	NM	150045	MDC_PRESS_BLD_ART_PULM_SYS	MDC	1.1.1.150045	MDC_DIM_MMHG
PA Diastolic, Channel	NM	150046	MDC_PRESS_BLD_ART_PULM_DIA	MDC	1.1.1.150046	MDC_DIM_MMHG
PA Mean, Channel	NM	150047	MDC_PRESS_BLD_ART_PULM_MEAN	MDC	1.1.1.150047	MDC_DIM_MMHG
PA Pulse Rate	NM	368	MNDRY_BLD_PULS_RATE_ART_PULM	99MNDRY	1.1.1.368	MDC_DIM_BEAT_PER_MIN
CVP Systolic, Channel	NM	150085	MDC_PRESS_BLD_VEN_CENT_SYS	MDC	1.1.1.150085	MDC_DIM_MMHG
CVP Diastolic, Channel	NM	150086	MDC_PRESS_BLD_VEN_CENT_DIA	MDC	1.1.1.150086	MDC_DIM_MMHG
CVP Mean, Channel	NM	150087	MDC_PRESS_BLD_VEN_CENT_MEAN	MDC	1.1.1.150087	MDC_DIM_MMHG
ICP Systolic, Channel	NM	153609	MDC_PRESS_INTRA_CRAN_SYS	MDC	1.1.1.153609	MDC_DIM_MMHG
ICP Diastolic, Channel	NM	153610	MDC_PRESS_INTRA_CRAN_DIA	MDC	1.1.1.153610	MDC_DIM_MMHG
ICP Mean, Channel	NM	153611	MDC_PRESS_INTRA_CRAN_MEAN	MDC	1.1.1.153611	MDC_DIM_MMHG
LA Systolic, Channel	NM	150065	MDC_PRESS_BLD_ATR_LEFT_SYS	MDC	1.1.1.150065	MDC_DIM_MMHG
LA Diastolic, Channel	NM	150066	MDC_PRESS_BLD_ATR_LEFT_DIA	MDC	1.1.1.150066	MDC_DIM_MMHG
LA Mean, Channel	NM	150067	MDC_PRESS_BLD_ATR_LEFT_MEAN	MDC	1.1.1.150067	MDC_DIM_MMHG
RA Systolic, Channel	NM	150069	MDC_PRESS_BLD_ATR_RIGHT_SYS	MDC	1.1.1.150069	MDC_DIM_MMHG
RA Diastolic, Channel	NM	150070	MDC_PRESS_BLD_ATR_RIGHT_DIA	MDC	1.1.1.150070	MDC_DIM_MMHG

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
RA Mean, Channel	NM	150071	MDC_PRESS_BLD_ATR_RIGHT_MEAN	MDC	1.1.1.150071	MDC_DIM_MMHG
Ao Systolic, Channel	NM	150029	MDC_PRESS_BLD_AORT_SYS	MDC	1.1.1.150029	MDC_DIM_MMHG
Ao Diastolic, Channel	NM	150030	MDC_PRESS_BLD_AORT_DIA	MDC	1.1.1.150030	MDC_DIM_MMHG
Ao Mean, Channel	NM	150031	MDC_PRESS_BLD_AORT_MEAN	MDC	1.1.1.150031	MDC_DIM_MMHG
Ao Pulse Rate	NM	372	MNDRY_BLD_PULS_RATE_AORT	99MNDRY	1.1.1.372	MDC_DIM_BEAT_PER_MIN
BAP Systolic, Channel	NM	150681	MDC_PRESS_BLD_ART_BRACHIAL_SYS	MDC	1.1.1. 150681	MDC_DIM_MMHG
BAP Diastolic, Channel	NM	150682	MDC_PRESS_BLD_ART_BRACHIAL_DIA	MDC	1.1.1. 150682	MDC_DIM_MMHG
BAP Mean, Channel	NM	150683	MDC_PRESS_BLD_ART_BRACHIAL_MEAN	MDC	1.1.1. 150683	MDC_DIM_MMHG
BAP Pulse Rate	NM	373	MNDRY_BLD_PULS_RATE_ART_BRACHIAL	99MNDRY	1.1.1.373	MDC_DIM_BEAT_PER_MIN
FAP Systolic, Channel	NM	150649	MDC_PRESS_BLD_ART_FEMORAL_SYS	MDC	1.1.1. 150649	MDC_DIM_MMHG
FAP Diastolic, Channel	NM	150650	MDC_PRESS_BLD_ART_FEMORAL_DIA	MDC	1.1.1. 150650	MDC_DIM_MMHG
FAP Mean, Channel	NM	150651	MDC_PRESS_BLD_ART_FEMORAL_MEAN	MDC	1.1.1. 150651	MDC_DIM_MMHG
FAP Pulse Rate	NM	374	MNDRY_BLD_PULS_RATE_ART_FEMORIAL	99MNDRY	1.1.1.374	MDC_DIM_BEAT_PER_MIN
UVP Systolic, Channel	NM	150089	MDC_PRESS_BLD_VEN_UMB_SYS	MDC	1.1.1.150089	MDC_DIM_MMHG
UVP Diastolic, Channel	NM	150090	MDC_PRESS_BLD_VEN_UMB_DIA	MDC	1.1.1.150090	MDC_DIM_MMHG
UVP Mean, Channel	NM	150091	MDC_PRESS_BLD_VEN_UMB_MEAN	MDC	1.1.1.150091	MDC_DIM_MMHG
NIBP Systolic	NM	150301	MDC_PRESS_CUFF_SYS	MDC	1.1.9.150301	MDC_DIM_MMHG
NIBP Diastolic	NM	150302	MDC_PRESS_CUFF_DIA	MDC	1.1.9.150302	MDC_DIM_MMHG
NIBP Mean	NM	150303	MDC_PRESS_CUFF_MEAN	MDC	1.1.9.150303	MDC_DIM_MMHG

Table Temperature Observation Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Temperature 1-2	NM	150344	MDC_TEMP	MDC	1.2.1.150344-1.2.2.150344	MDC_DIM_FAHR

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
△Temperature	NM	188440	MDC_TEMP_DIFF	MDC	1.2.4.188440	MDC_DIM_FAHR

Table CO2 Observation Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Inspired CO2 (FiCO2)	NM	151716	MDC_CONC_AWAY_CO2_INSP	MDC	1.8.1.151716	MDC_DIM_MMHG
End-Tidal CO2 (EtCO2)	NM	151708	MDC_CONC_AWAY_CO2_ET	MDC	1.8.1.151708	MDC_DIM_MMHG
CO2 Respiration Rate	NM	151594	MDC_CO2_RESP_RATE	MDC	1.8.1.151594	MDC_DIM_RESP_PER_MIN

Table CPR Observation Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
CPR Compression Depth	NM	406	MNDRY_CPR_COMP_DEPTH	99MNDRY	1.31.17.406	MDC_DIM_CENTI_M
CPR Compression Rate	NM	407	MNDRY_CPR_COMP_RATE	99MNDRY	1.31.17.407	MNDRY_DIM_COMPRESSIONS_PER_MIN
CPR Interruption Time	NM	408	MNDRY_CPR_TIME_PD_INTERRUPTION	99MNDRY	1.31.17.408	MDC_DIM_SEC

Table Defib Event Observation Type Field Codes

Observation Type	OBX-2	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	OBX-6.2
Manual Charge To Xxj Manual Defib	NM	30760	MNDRY_EVT_DEFIB_MANUAL_CHARGE_TO_XXJ_MANUAL_DEFIB	99MNDRY	1.31.1.30760	MDC_DIM_JOULES
Manual Shock Manual Defib	NM	30761	MNDRY_EVT_DEFIB_MANUAL_SHOCK_MANUAL_DEFIB	99MNDRY	1.31.1.30761	MDC_DIM_JOULES

Manual Discharge Manual	empty	30762	MNDRY_EVT_DEFIB_MANUAL_DISCHARGE_MANUAL	99MNDRY	1.31.1.30762	MDC_DIM_DIMLESS
Manual Discharge Auto Impedance Higher	empty	30763	MNDRY_EVT_DEFIB_MANUAL_DISCHARGE_AUTO_IMPEDANCE_HIGHER	99MNDRY	1.31.1.30763	MDC_DIM_DIMLESS
Manual Discharge Auto Impedance Lower	empty	30764	MNDRY_EVT_DEFIB_MANUAL_DISCHARGE_AUTO_IMPEDANCE_LOWER	99MNDRY	1.31.1.30764	MDC_DIM_DIMLESS
Manual Discharge Auto Shock Release Abnormal	empty	30765	MNDRY_EVT_DEFIB_MANUAL_DISCHARGE_AUTO_SHOCK_RELEASE_ABNORMAL	99MNDRY	1.31.1.30765	MDC_DIM_DIMLESS
Manual Discharge Auto Change Lead type	empty	30768	MNDRY_EVT_DEFIB_MANUAL_DISCHARGE_AUTO_CHANGE_LEADTYPE	99MNDRY	1.31.1.30768	MDC_DIM_DIMLESS
Manual Discharge Auto Energy Change	empty	30769	MNDRY_EVT_DEFIB_MANUAL_DISCHARGE_AUTO_ENERGY_CHANGE	99MNDRY	1.31.1.30769	MDC_DIM_DIMLESS
Manual Discharge Auto Mode Switch	empty	30770	MNDRY_EVT_DEFIB_MANUAL_DISCHARGE_AUTO_MODE_SWITCH	99MNDRY	1.31.1.30770	MDC_DIM_DIMLESS
Manual Discharge Auto Charge Failed	empty	30771	MNDRY_EVT_DEFIB_MANUAL_DISCHARGE_AUTO_CHARGE_FAILED	99MNDRY	1.31.1.30771	MDC_DIM_DIMLESS
Manual Discharge Auto Discharge	empty	30772	MNDRY_EVT_DEFIB_MANUAL_DISCHARGE_AUTO_DISCHARGE	99MNDRY	1.31.1.30772	MDC_DIM_DIMLESS
Manual Select Sync Defib	empty	30773	MNDRY_EVT_DEFIB_MANUAL_SELECT_SYNC_DEFIB	99MNDRY	1.31.1.30773	MDC_DIM_DIMLESS
Manual Enter Remote Sync Defib	empty	30774	MNDRY_EVT_DEFIB_MANUAL_ENTER_REMOTE_SYNC_DEFIB	99MNDRY	1.31.1.30774	MDC_DIM_DIMLESS
Manual Exit Remote Sync Defib	empty	30775	MNDRY_EVT_DEFIB_MANUAL_EXIT_REMOTE_SYNC_DEFIB	99MNDRY	1.31.1.30775	MDC_DIM_DIMLESS
Manual or AED, Whether entered CPR	CNE	473	MNDRY_DEFIB_STAT_CPR	99MNDRY	1.31.2.473	MDC_DIM_DIMLESS
AED Analyse Start	empty	30776	MNDRY_EVT_DEFIB_AED_ANALYSE_START	99MNDRY	1.31.2.30776	MDC_DIM_DIMLESS
AED Analyse Pause CPR 30:2	empty	30777	MNDRY_EVT_DEFIB_AED_ANALYSE_PAUSE_CPR_30_2	99MNDRY	1.31.2.30777	MDC_DIM_DIMLESS
AED Analyse Pause CPR 15:2	empty	30778	MNDRY_EVT_DEFIB_AED_ANALYSE_PAUSE_CPR_15_2	99MNDRY	1.31.2.30778	MDC_DIM_DIMLESS
AED Analyse Pause CPR Compress Only	empty	30779	MNDRY_EVT_DEFIB_AED_ANALYSE_PAUSE_CPR_COMPRESS_ONLY	99MNDRY	1.31.2.30779	MDC_DIM_DIMLESS
AED Analyse Resume	empty	30780	MNDRY_EVT_DEFIB_AED_ANALYSE_RESUME	99MNDRY	1.31.2.30780	MDC_DIM_DIMLESS
AED Charge To XXJ AED	NM	30781	MNDRY_EVT_DEFIB_AED_CHARGE_TO_XXJ_AED	99MNDRY	1.31.2.30781	MDC_DIM_JOULES
AED Shock Suggested	empty	30782	MNDRY_EVT_DEFIB_AED_SHOCK_SUGGESTED	99MNDRY	1.31.2.30782	MDC_DIM_DIMLESS
AED No Shock Suggested	empty	30783	MNDRY_EVT_DEFIB_AED_NO_SHOCK_SUGGESTED	99MNDRY	1.31.2.30783	MDC_DIM_DIMLESS
AED Discharge Auto Impedance Higher	empty	30784	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_IMPEDANCE_HIGHER	99MNDRY	1.31.2.30784	MDC_DIM_DIMLESS
AED Discharge Auto Impedance Lower	empty	30785	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_IMPEDANCE_LOWER	99MNDRY	1.31.2.30785	MDC_DIM_DIMLESS
AED Discharge Auto Shock Release	empty	30786	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_SHOCK_RELEASE_ABNOR	99MNDRY	1.31.2.30786	MDC_DIM_DIMLESS

Abnormal			MAL			
AED Discharge Auto Change Lead type	empty	30789	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_CHANGE_LEADTYPE	99MNDRY	1.31.2.30789	MDC_DIM_DIMLESS
AED Discharge Auto Energy Change	empty	30790	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_ENERGY_CHANGE	99MNDRY	1.31.2.30790	MDC_DIM_DIMLESS
AED Discharge Auto Mode Switch	empty	30791	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_MODE_SWITCH	99MNDRY	1.31.2.30791	MDC_DIM_DIMLESS
AED Discharge Auto Charge Failed	empty	30792	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_CHARGE_FAILED	99MNDRY	1.31.2.30792	MDC_DIM_DIMLESS
AED Discharge Auto Discharge	empty	30793	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_DISCHARGE	99MNDRY	1.31.2.30793	MDC_DIM_DIMLESS
AED Discharge Auto Enter CPR	empty	30794	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_ENTER_CPR	99MNDRY	1.31.2.30794	MDC_DIM_DIMLESS
AED Discharge Auto No Shock Suggested	empty	30795	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_NO_SHOCK_SUGGESTED	99MNDRY	1.31.2.30795	MDC_DIM_DIMLESS
AED Discharge Auto ECG External Interfere	empty	30796	MNDRY_EVT_DEFIB_AED_DISCHARGE_AUTO_ECG_EXTERNAL_INTERFERE	99MNDRY	1.31.2.30796	MDC_DIM_DIMLESS
AED Shock	NM	30797	MNDRY_EVT_DEFIB_AED_SHOCK	99MNDRY	1.31.2.30797	MDC_DIM_JOULES
Pace Start	empty	30800	MNDRY_EVT_DEFIB_PACE_START	99MNDRY	1.31.3.30800	MDC_DIM_DIMLESS
Pace 4:1	empty	30801	MNDRY_EVT_DEFIB_PACE_4_1	99MNDRY	1.31.3.30801	MDC_DIM_DIMLESS
Pace Stop	empty	30802	MNDRY_EVT_DEFIB_PACE_STOP	99MNDRY	1.31.3.30802	MDC_DIM_DIMLESS
Pace Set Rate	NM	20080	MNDRY_PACER_RATE_SETTING	99MNDRY	1.31.3.20080	MDC_DIM_BEAT_PER_MIN
Pace Set Current	NM	20081	MNDRY_PACER_OUTPUT_SETTING	99MNDRY	1.31.3.20081	MDC_DIM_MILLI_AMPS
Pace Mode, As Required or Fixed	CNE	20082	MNDRY_PACER_MODE_SETTING	99MNDRY	1.31.3.20082	MDC_DIM_DIMLESS
Pace Setting, Patient Is Paced or Not	CNE	20079	MNDRY_PATIENT_PACED_SETTING	99MNDRY	1.31.3.20079	MDC_DIM_DIMLESS
Mark Event Generic	empty	30930	MNDRY_EVT_MARK_GENERIC	99MNDRY	1.31.16.30930	MDC_DIM_DIMLESS
Mark Event Adrenalin	empty	30931	MNDRY_EVT_MARK_ADMINISTERED_ADRENALIN	99MNDRY	1.31.16.30931	MDC_DIM_DIMLESS
Mark Event Lidocaine	empty	30932	MNDRY_EVT_MARK_ADMINISTERED_LIDOCAINE	99MNDRY	1.31.16.30932	MDC_DIM_DIMLESS
Mark Event Atropine	empty	30933	MNDRY_EVT_MARK_ADMINISTERED_ATROPINE	99MNDRY	1.31.16.30933	MDC_DIM_DIMLESS
Mark Event Nitroglycerin	empty	30934	MNDRY_EVT_MARK_ADMINISTERED_NITROGLYCERIN	99MNDRY	1.31.16.30934	MDC_DIM_DIMLESS

Mark Event Morphine	empty	30935	MNDRY_EVT_MARK_ADMINISTERED_MORPHINE	99MNDRY	1.31.16.30935	MDC_DIM_DIMLESS
Mark Event Intubation	empty	30936	MNDRY_EVT_MARK_INTUBATION	99MNDRY	1.31.16.30936	MDC_DIM_DIMLESS
Mark Event IV Access	empty	30937	MNDRY_EVT_MARK_IV_ACCESS	99MNDRY	1.31.16.30937	MDC_DIM_DIMLESS
Mark Event Adenosine	empty	30938	MNDRY_EVT_MARK_ADMINISTERED_ADENOSINE	99MNDRY	1.31.16.30938	MDC_DIM_DIMLESS
Mark Event Amiodarone	empty	30939	MNDRY_EVT_MARK_ADMINISTERED_AMIODARONE	99MNDRY	1.31.16.30939	MDC_DIM_DIMLESS
Mark Event Vasopressin	empty	30940	MNDRY_EVT_MARK_ADMINISTERED_VASOPRESSIN	99MNDRY	1.31.16.30940	MDC_DIM_DIMLESS
Mark Event Isoprenaline	empty	30941	MNDRY_EVT_MARK_ADMINISTERED_ISOPRESSIN	99MNDRY	1.31.16.30941	MDC_DIM_DIMLESS
Mark Event Dopamine	empty	30942	MNDRY_EVT_MARK_ADMINISTERED_DOPAMINE	99MNDRY	1.31.16.30942	MDC_DIM_DIMLESS
Mark Event Aspirin	empty	30943	MNDRY_EVT_MARK_ADMINISTERED_ASPRIN	99MNDRY	1.31.16.30943	MDC_DIM_DIMLESS
Mark Event Oxygen	empty	30944	MNDRY_EVT_MARK_OXYGIN	99MNDRY	1.31.16.30944	MDC_DIM_DIMLESS
Mark Event CPR	empty	30945	MNDRY_EVT_MARK_CPR	99MNDRY	1.31.16.30945	MDC_DIM_DIMLESS
Mark Event User	ST	30946	MNDRY_EVT_MARK_USER	99MNDRY	1.31.16.30946	MDC_DIM_DIMLESS
Switch to XX Mode	CNE	472	MNDRY_DEFIB_MODE	99MNDRY	1.31.16.472	MDC_DIM_DIMLESS
Device Status, Power On or Off	CNE	202886	MDC_EVT_STAT_DEV	MDC	1.31.16.202886	MDC_DIM_DIMLESS

E.3 Supported Waveform

Waveform Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	Waveform Resolution OBX-6.2
ECG Lead I	131329	MDC_ECG_ELEC_POTL_I	MDC	1.7.6.131329	MDC_DIM_MILLI_VOLT
ECG Lead II	131330	MDC_ECG_ELEC_POTL_II	MDC	1.7.6.131330	MDC_DIM_MILLI_VOLT
ECG Lead III	131389	MDC_ECG_ELEC_POTL_III	MDC	1.7.6.131389	MDC_DIM_MILLI_VOLT
ECG Lead aVR	131390	MDC_ECG_ELEC_POTL_AVR	MDC	1.7.6.131390	MDC_DIM_MILLI_VOLT
ECG Lead aVL	131391	MDC_ECG_ELEC_POTL_AVL	MDC	1.7.6.131391	MDC_DIM_MILLI_VOLT
ECG Lead aVF	131392	MDC_ECG_ELEC_POTL_AVF	MDC	1.7.6.131392	MDC_DIM_MILLI_VOLT
ECG Lead V1	131331	MDC_ECG_ELEC_POTL_V1	MDC	1.7.6.131331	MDC_DIM_MILLI_VOLT
ECG Lead V2	131332	MDC_ECG_ELEC_POTL_V2	MDC	1.7.6.131332	MDC_DIM_MILLI_VOLT
ECG Lead V3	131333	MDC_ECG_ELEC_POTL_V3	MDC	1.7.6.131333	MDC_DIM_MILLI_VOLT
ECG Lead V4	131334	MDC_ECG_ELEC_POTL_V4	MDC	1.7.6.131334	MDC_DIM_MILLI_VOLT
ECG Lead V5	131335	MDC_ECG_ELEC_POTL_V5	MDC	1.7.6.131335	MDC_DIM_MILLI_VOLT
ECG Lead V6	131336	MDC_ECG_ELEC_POTL_V6	MDC	1.7.6.131336	MDC_DIM_MILLI_VOLT
ECG Lead V	131395	MDC_ECG_ELEC_POTL_V	MDC	1.7.6.131395	MDC_DIM_MILLI_VOLT
ECG Lead Pad	380	MNDRY_ECG_ELEC_POTL_DEFIB_PAD	99MNDRY	1.31.1.380	MDC_DIM_MILLI_VOLT
ECG Lead Paddle	381	MNDRY_ECG_ELEC_POTL_DEFIB_PADDLE	99MNDRY	1.31.1.381	MDC_DIM_MILLI_VOLT
Pleth	150452	MDC_PULS_OXIM_PLETH	MDC	1.3.1.150452	MDC_DIM_DIMLESS
Transthoracic Impedance	151780	MDC_IMPED_TTHOR	MDC	1.7.1.151780	MDC_DIM_DIMLESS
Arterial Blood Pressure	150032	MDC_PRESS_BLD_ART	MDC	1.1.1.150032	MDC_DIM_MMHG
Pulmonary Arterial Blood Pressure	150044	MDC_PRESS_BLD_ART_PULM	MDC	1.1.1.150044	MDC_DIM_MMHG

Waveform Type	OBX-3.1	OBX-3.2	OBX-3.3	OBX-4	Waveform Resolution OBX-6.2
Central Venous Blood Pressure	150084	MDC_PRESS_BLD_VEN_CENT	MDC	1.1.1.150084	MDC_DIM_MMHG
Right Atria Blood Pressure	150068	MDC_PRESS_BLD_ATR_RIGHT	MDC	1.1.1.150068	MDC_DIM_MMHG
Left Atria Blood Pressure	150064	MDC_PRESS_BLD_ATR_LEFT	MDC	1.1.1.150064	MDC_DIM_MMHG
Intra Cranial Pressure	153608	MDC_PRESS_INTRA_CRAN	MDC	1.1.1.153608	MDC_DIM_MMHG
Invasive Blood Pressure1	150016	MDC_PRESS_BLD	MDC	1.1.1.150016	MDC_DIM_MMHG
Invasive Blood Pressure2	150016	MDC_PRESS_BLD	MDC	1.1.2.150016	MDC_DIM_MMHG
Aortic Blood Pressure	150028	MDC_PRESS_BLD_AORT	MDC	1.1.1.150028	MDC_DIM_MMHG
Umbilical Arterial Blood Pressure	150056	MDC_PRESS_BLD_ART_UMB	MDC	1.1.1.150056	MDC_DIM_MMHG
Brachial Arterial Blood Pressure	150680	MDC_PRESS_BLD_ART_BRACHIAL	MDC	1.1.1.150680	MDC_DIM_MMHG
Femoral Arterial Blood Pressure	150648	MDC_PRESS_BLD_ART_FEMORAL	MDC	1.1.1.150648	MDC_DIM_MMHG
Umbilical Venous Blood Pressure	150088	MDC_PRESS_BLD_VEN_UMB	MDC	1.1.1.150088	MDC_DIM_MMHG
CO2 CO2, Airway	151700	MDC_CONC_AWAY_CO2	MDC	1.8.1.151700	MDC_DIM_MMHG

E.4 Supported Alert Event

Table Physiological Alert Event Type Field Codes

Alarm	OBX-x.1	OBX-x.2	OBX-x.3	OBX-4	Comment
High ***	196648	MDC_EVT_HI_VAL_GT_LIM	MDC	Based on parameter	*** indicates patient's physiological parameters which monitoring devices support general physiological alarm, refer to the table "High/Low Alarm parameters definition".
Low ***	196670	MDC_EVT_LO_VAL_LT_LIM	MDC	Based on parameter	*** indicates patient's physiological parameters which monitoring devices support general physiological alarm, refer to the table"High/Low Alarm parameters definition".
*** Exceed Limit	197018	MDC_EVT_AL_LIMIT	MDC	Based on parameter	***Indicates a physiological parameter has exceeded a set high or low threshold. Facet 2 will contain the parameter information. See "High/Low Alarm parameters definition" table for parameters this applies to.
Asystole	199684	MDC_EVT_ECG_ASYSTOLE	MDC	1.7.2.199684	
Bigeminy	199690	MDC_EVT_ECG_BIGEM	MDC	1.7.2.199690	

Bradycardia	199692	MDC_EVT_ECG_SINUS_BRADY	MDC	1.7.2.199692	
Couplet	199880	MDC_EVT_ECG_RHY_CPLT	MDC	1.7.2.199880	
Irregular Heart Rate	199766	MDC_EVT_ECG_CARD_BEAT_RATE_IRREG	MDC	1.7.2.199766	
Pause	199716	MDC_EVT_ECG_PAUSE	MDC	1.7.2.199716	
Run (VT > 2)	199820	MDC_EVT_ECG_V_P_C_RUN	MDC	1.7.2.199820	
Trigeminy	199844	MDC_EVT_ECG_V_TRIGEM	MDC	1.7.2.199844	
V-Fib	199806	MDC_EVT_ECG_V_FIB	MDC	1.7.2.199806	
V-Rhythm	199828	MDC_EVT_ECG_V_RHY	MDC	1.7.2.199828	
V-Tach	199832	MDC_EVT_ECG_V_TACHY	MDC	1.7.2.199832	
V-Fib/V-Tach	30010	MNDRY_EVT_ECG_VFIB_VTAC	99MNDRY	1.7.2.30010	
Vent. Brady	30011	MNDRY_EVT_ECG_VENT_BRADY	99MNDRY	1.7.2.30011	
Extreme Tachycardia	199730	MDC_EVT_ECG_TACHY_EXTREME	MDC	1.7.2.199730	
Extreme Bradycardia	199694	MDC_EVT_ECG_BRADY_EXTREME	MDC	1.7.2.199694	
Single PVC	199812	MDC_EVT_ECG_V_P_C	MDC	1.7.2.199812	
Tachycardia	199870	MDC_EVT_ECG_SINUS_TACHY	MDC	1.7.2.199870	
R on T	199814	MDC_EVT_ECG_V_P_C_RonT	MDC	1.7.2.199814	
Multifocal PVCs	199816	MDC_EVT_ECG_V_P_C_MULTIFORM	MDC	1.7.2.199816	
Miss Beat	199686	MDC_EVT_ECG_BEAT_MISSED	MDC	1.7.2.199686	
Pacer Not Paced	199790	MDC_EVT_ECG_PACER_NOT_PACING	MDC	1.7.5.199790	
Pacer Not Captured	199710	MDC_EVT_ECG_PACING_NON_CAPT	MDC	1.7.5.199710	
Non-sustained V-Tach	30012	MNDRY_EVT_ECG_NONSUS_VTAC	99MNDRY	1.7.2.30012	
ECG Lost	30126	MNDRY_EVT_ECG_LOST	99MNDRY	1.7.0.30126	
Atrial Fibrillation	30107	MNDRY_EVT_ECG_AFIB	99MNDRY	1.7.2.30107	
SpO2 Desat	199854	MDC_EVT_DESAT	MDC	1.3.1.150456	

Apnea, Impedance Respiration	199680	MDC_EVT_APNEA	MDC	1.7.1.199680	
Apnea, Gas(CO2)	199680	MDC_EVT_APNEA	MDC	1.8.1.199680	
No Pulse	30023	MNDRY_EVT_NO_PLUSE	99MNDRY	1.0.0.30023	No Pulse found
Respiration CVA Present	199904	MDC_EVT_ERR_EQU_HR_AND_RR	MDC	1.7.1.199904	

Table Technical Alert Event Type Field Codes

Alarm	OBX-x.1	OBX-x.2	OBX-x.3	OBX-4	Comment
***Out of Range	30174	MNDRY_EVT_OUT_OF_RANGE	99MNDRY	Based on parameter	Indicates the physiological parameter is outside the device’s measurement range. Refer to the table “Out of Range Alarm parameters definition” for possible parameters
ECG Lead Off	196680	MDC_EVT_LEAD_OFF	MDC	1.7.0.196680	OBX-20 will contain ECG lead found in body site table
ECG Self Test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.7.0.30190	ECG, ECG1-ECG-8
ECG Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.7.0.30191	
ECG Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.7.0.30192	
ECG Noise	196682	MDC_EVT_NOISY	MDC	1.7.0.196682	Including HF Noise and LF Noise
ECG INOP	30184	MNDRY_EVT_ECG_INOP	99MNDRY	1.7.0.30184	
ECG Cable Off	30222	MNDRY_EVT_CABLE_OFF	99MNDRY	1.7.0.30222	
PADS Cable Off	30222	MNDRY_EVT_CABLE_OFF	99MNDRY	1.31.0.30222	
PADS Off	30836	MNDRY_EVT_PADS_OFF	99MNDRY	1.31.0.30836	

PADDLES Lead Off	30836	MNDRY_EVT_PADS_OFF	99MNDRY	1.31.0.30836	
Pacer Stopped Abnormally	30210	MNDRY_EVT_PACER_STOPPED_ABNORM	99MNDRY	1.7.5.30210	
SpO2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.3.1/1.3.2.202834	SPO2 / SPO2B
SpO2 Searching for Pulse	30211	MNDRY_EVT_SEARCHING_PULSE	99MNDRY	1.3.1/1.3.2.30211	SPO2 / SPO2B
SpO2 Init. Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.3.1/1.3.2.30189	SPO2 / SPO2B
SpO2 Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.3.1/1.3.2.30192	SPO2 / SPO2B
SpO2 Comm. Stop	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.3.1/1.3.2.30191	SPO2 / SPO2B
SpO2 Weak Pulse	196736	MDC_EVT_WEAK	MDC	1.3.1/1.3.2.196736	SPO2 / SPO2B
SpO2 Weak Signal	196736	MDC_EVT_WEAK	MDC	1.3.1/1.3.2.196736	SPO2 / SPO2B
SpO2 Check Sensor	30213	MNDRY_EVT_SPO2_CHECK_ERROR	99MNDRY	1.3.1/1.3.2.30213	SPO2 / SPO2B
SpO2 Motion	30214	MNDRY_EVT_SPO2_MOTION	99MNDRY	1.3.1/1.3.2.30214	SPO2 / SPO2B
SpO2 Interference	196886	MDC_EVT_LIGHT_INTERF	MDC	1.3.1/1.3.2.196886	SPO2 / SPO2B
SpO2 Low Perfusion	30013	MNDRY_EVT_SPO2_LOW_PERFUSION	99MNDRY	1.3.1/1.3.2.30013	SPO2 / SPO2B
SpO2 Too Much Light	196886	MDC_EVT_LIGHT_INTERF	MDC	1.3.1/1.3.2.196886	SPO2 / SPO2B
SpO2 Unrecognized Sensor	30215	MNDRY_EVT_SPO2_UNRECOGNIZED_SENSOR	99MNDRY	1.3.1/1.3.2.30215	SPO2 / SPO2B
SpO2 Board Fault	30216	MNDRY_EVT_SPO2_BOARD_FAULT	99MNDRY	1.3.1/1.3.2.30216	SPO2 / SPO2B
SpO2 Sensor Error	30217	MNDRY_EVT_SPO2_SENSOR_ERROR	99MNDRY	1.3.1/1.3.2.30217	SPO2 / SPO2B
SpO2 No Sensor	30218	MNDRY_EVT_SPO2_NO_SENSOR	99MNDRY	1.3.1/1.3.2.30218	SPO2 / SPO2B
SpO2 Low Signal	196736	MDC_EVT_WEAK	MDC	1.3.1/1.3.2.196736	SPO2 / SPO2B
SpO2 Incompatible Sensor	30219	MNDRY_EVT_SPO2_INCOMP_SENSOR	99MNDRY	1.3.1/1.3.2.30219	SPO2 / SPO2B
SpO2 No Pulse	30048	MNDRY_EVT_SPO2_NO_PLUSE	99MNDRY	1.3.1/1.3.2.30048	SPO2 / SPO2B
SpO2 Selftest Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.3.1/1.3.2.30190	SPO2 / SPO2B
NIBP Self test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.1.9.30190	
NIBP Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.1.9.30192	

NIBP Lose Cuff	30223	MNDRY_EVT_NIBP_LOSE_CUFF	99MNDRY	1.1.9.30223	
NIBP Air Leak	30224	MNDRY_EVT_NIBP_AIR_LEAK	99MNDRY	1.1.9.30224	
NIBP Air Error	30225	MNDRY_EVT_NIBP_AIR_ERROR	99MNDRY	1.1.9.30225	
NIBP Weak Signal	196736	MDC_EVT_WEAK	MDC	1.1.9.196736	
NIBP Out of Range	196774	MDC_EVT_RANGE_OVER	MDC	1.1.9.196774	
NIBP Excessive Motion	30226	MNDRY_EVT_NIBP_EXCESSIVE_MOTION	99MNDRY	1.1.9.30226	
NIBP Over Pressure	30227	MNDRY_EVT_NIBP_OVER_PRESSURE	99MNDRY	1.1.9.30227	
NIBP Signal Saturated	30228	MNDRY_EVT_NIBP_SIGNAL_SATURATED	99MNDRY	1.1.9.30228	
NIBP Pneumatic Leak	30229	MNDRY_EVT_NIBP_PNEUMATIC_LEAK	99MNDRY	1.1.9.30229	
NIBP System Failure	30230	MNDRY_EVT_NIBP_SYSTEM_FAILURE	99MNDRY	1.1.9.30230	
NIBP Timed Out	30231	MNDRY_EVT_NIBP_TIEMOUT	99MNDRY	1.1.9.30231	
NIBP Wrong Cuff Type	30232	MNDRY_EVT_NIBP_WRONG_CUFF_TYPE	99MNDRY	1.1.9.30232	
NIBP Measurement Fail	196964	MDC_EVT_MSMT_FAIL	MDC	1.1.9.196964	
NIBP Reset due to Error	30234	MNDRY_EVT_NIBP_RESET_DUETO_ERROR	99MNDRY	1.1.9.30234	
T1 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.2.1.202834	
T2 Sensor Off	202834	MDC_EVT_STAT_OFF	MDC	1.2.2.202834	
TEMP Comm. Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.2.0.30192	
TEMP Comm. Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.2.0.30191	
TEMP Selftest Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.2.0.30190	
TEMP Calibration Error	30238	MNDRY_EVT_TEMP_CALIB_ERROR	99MNDRY	1.2.0.30238	
IBP Disconnected	30260	MNDRY_EVT_IBP_DISCONNECTED	99MNDRY	1.1.0-1.1.8.30260 1.1.0.30260	IBP1-8 other IBP…
CO2 Standby	30265	MNDRY_EVT_CO2_STANDBY	99MNDRY	1.8.0.30265	
CO2 Warm Up	30266	MNDRY_EVT_CO2_WARM_UP	99MNDRY	1.8.0.30266	
CO2 Sensor Fault	30277	MNDRY_EVT_CO2_SENSOR_FAULT	99MNDRY	1.8.0.30277	

CO2 Sensor Temp High	30278	MNDRY_EVT_CO2_SENSOR_TEMP_HIGH	99MNDRY	1.8.0.30278	
CO2 Sensor Temp Low	30279	MNDRY_EVT_CO2_SENSOR_TEMP_LOW	99MNDRY	1.8.0.30279	
CO2 System Error	30281	MNDRY_EVT_CO2_SYSTEM_ERROR	99MNDRY	1.8.0.30281	
CO2 Malfunction	30285	MNDRY_EVT_CO2_MALFUNCTION	99MNDRY	1.8.0.30285	
CO2 Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.8.0.30189	
CO2 Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.8.0.30192	
CO2 Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.8.0.30191	
CO2 Maintain	30290	MNDRY_EVT_CO2_MAINTAIN	99MNDRY	1.8.0.30290	
CO2 Start Up	30291	MNDRY_EVT_CO2_START_UP	99MNDRY	1.8.0.30291	
CO2 Calibrate Zero	30292	MNDRY_EVT_CO2_CALIB_ZERO	99MNDRY	1.8.0.30292	
CO2 Airway Press High	30294	MNDRY_EVT_CO2_AIRWAY_PRESS_HIGH	99MNDRY	1.8.0.30294	
CO2 Airway Press Low	30295	MNDRY_EVT_CO2_AIRWAY_PRESS_LOW	99MNDRY	1.8.0.30295	
CO2 Hardware Error	30296	MNDRY_EVT_CO2_HARDWARE_ERROR	99MNDRY	1.8.0.30296	
CO2 Filter Line Abnormal	30297	MNDRY_EVT_CO2_FITER_LINE_ABNORMAL	99MNDRY	1.8.0.30297	
CO2 Zeroing Failed	30298	MNDRY_EVT_CO2_ZEROING_FAILED	99MNDRY	1.8.0.30298	
CO2 User Calibrate Fail	30299	MNDRY_EVT_CO2_USER_CALIB_FAILED	99MNDRY	1.8.0.30299	
CO2 Factory Calibrate Fail	30300	MNDRY_EVT_CO2_FACTORY_CALIB_FAILED	99MNDRY	1.8.0.30300	
CO2 Pump Abnormal	30304	MNDRY_EVT_CO2_PUMP_ABNORMAL	99MNDRY	1.8.0.30304	
CO2 Self-check Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.8.0.30190	
CO2 Check Calibration	30325	MNDRY_EVT_CO2_CHECK_CALIBRATION	99MNDRY	1.8.0.30325	
CO2 Check Airway	30326	MNDRY_EVT_CO2_CHECK_ARIWAY	99MNDRY	1.8.0.30326	
CO2 FilterLine Occluded	30327	MNDRY_EVT_CO2_FILTERLINE_OCCLUDED	99MNDRY	1.8.0.30327	
CO2 No Filterline	30328	MNDRY_EVT_CO2_NO_FILTERLINE	99MNDRY	1.8.0.30328	
CO2 Purging	30329	MNDRY_EVT_CO2_PURGING	99MNDRY	1.8.0.30329	

CO2 Barometric Too High	30331	MNDRY_EVT_CO2_BAROMETRIC_TOO_HIGH	99MNDRY	1.8.0.30331	
CO2 Barometric Too Low	30332	MNDRY_EVT_CO2_BAROMETRIC_TOO_LOW	99MNDRY	1.8.0.30332	
CO2 Require Zero	30333	MNDRY_EVT_CO2_REQUIRE_ZERO	99MNDRY	1.8.0.30333	
CO2 Check Adapter	30334	MNDRY_EVT_CO2_CHECK_ADAPTER	99MNDRY	1.8.0.30334	
CO2 Temp Overrange	196774	MDC_EVT_RANGE_OVER	MDC	1.8.0.196774	
CO2 Normalization Failed	30339	MNDRY_EVT_CO2_NORMALIZATION_FAIL	99MNDRY	1.8.0.30339	
CO2 Need Change Water trap	30672	MNDRY_EVT_CO2_NEED_CHANGE_WATER TRAP	99MNDRY	1.8.0.30672	
Water trap Mismatch Patient Size	30673	MNDRY_EVT_WATERTRAP_MISMATCH_PATIENT	99MNDRY	1.8.0.30673	
CO2 Module Error	30188	MNDRY_EVT_MODULE_ERROR	99MNDRY	1.8.0.30188	
RT Clock Need Reset	30377	MNDRY_EVT_RT_CLOCK_NEED_RESET	99MNDRY	1.0.0.30377	
No Fan	30388	MNDRY_EVT_NO_FAN	99MNDRY	1.0.0.30388	
No Speaker	30389	MNDRY_EVT_NO_SPEAKER	99MNDRY	1.0.0.30389	
No Data Card	30390	MNDRY_EVT_NO_DATA_CARD	99MNDRY	1.0.0.30390	
Power Board Comm. Err	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.0.0.30192	
Therapy Module Comm. Err	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.0.0.30192	
Main Control Selftest Err	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.0.0.30190	
Data Card Err	30391	MNDRY_EVT_DATA_CARD_ERROR	99MNDRY	1.0.0.30391	
ECG algorithm mismatched	30392	MNDRY_EVT_ECG_ALG_MISMATCH	99MNDRY	1.0.0.30392	
Last User Test Failed	30393	MNDRY_EVT_LAST_USER_TEST_FAILED	99MNDRY	1.0.0.30393	
Last Auto Test Failed	30394	MNDRY_EVT_LAST_AUTO_TEST_FAILED	99MNDRY	1.0.0.30394	
Load Configuration Error	30395	MNDRY_EVT_LOAD_CFG_ERROR	99MNDRY	1.0.0.30395	

Therapy Equip Selftest Err	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.0.0.30190	
Defib Malfunction	30396	MNDRY_EVT_DEFIB_MALFUNCTION	99MNDRY	1.0.0.30396	
Pacer Malfunction	30397	MNDRY_EVT_PACER_MALFUNCTION	99MNDRY	1.0.0.30397	
Disarming Failed	30398	MNDRY_EVT_DISARMING_FAILED	99MNDRY	1.0.0.30398	
Monitor Module Selftest Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.0.0.30190	
Monitor Module Reset Error	30399	MNDRY_EVT_MONITOR_MODULE_RESET_ERROR	99MNDRY	1.0.0.30399	
Monitor Module Voltage Error	30400	MNDRY_EVT_MONITOR_MODULE_VOLTAGE_ERROR	99MNDRY	1.0.0.30400	
Not Charge/Discharge Frequently	30401	MNDRY_EVT_NOT_CHARGE/DISCHARGE_FREQUENTLY	99MNDRY	1.0.0.30401	
Machine Type Error	30402	MNDRY_EVT_MACHINE_TYPE_ERROR	99MNDRY	1.0.0.30402	
Keyboard Communications Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.0.0.30192	
Keyboard Error	30408	MNDRY_EVT_KEYBOARD_ERROR	99MNDRY	1.0.0.30408	
Low Battery	196802	MDC_EVT_BATT_LO	MDC	1.30.1.196802	
Critically Low Battery	30426	MNDRY_EVT_CRITICALLY_LOW_BATTERY	99MNDRY	1.30.1.30426	
Power Board Volt Error	30428	MNDRY_EVT_POWER_BOARD_VOL_ERROR	99MNDRY	1.30.1.30428	
No Battery	30130	MNDRY_EVT_BATTERY_MISSING	99MNDRY	1.30.1.30130	
Battery Error	30430	MNDRY_EVT_BATTERY_ERROR	99MNDRY	1.30.1.30430	
Battery Aged	30431	MNDRY_EVT_BATTERY_AGED	99MNDRY	1.30.1.30431	
Battery Failed Charging	30432	MNDRY_EVT_BATTERY_CHARGING_FAIL	99MNDRY	1.30.1.30432	
RT Clock Error	30433	MNDRY_EVT_RT_CLOCK_ERROR	99MNDRY	1.0.0.30433	
Battery Charging Error	30434	MNDRY_EVT_CHARGING_ERROR	99MNDRY	1.30.1.30434	
Powerboard Self-test Error	30190	MNDRY_EVT_SELFTEST_ERROR	99MNDRY	1.30.1.30190	

Recorder Init. Error	30436	MNDRY_EVT_RECORDER_INIT_ERROR	99MNDRY	1.25.1.30436	
Recorder Too Hot	30441	MNDRY_EVT_RECORDER_TOO_HOT	99MNDRY	1.25.1.30441	
Recorder Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.25.1.30192	
Recorder Over Current	30448	MNDRY_EVT_RECORDER_OVERCURRENT	99MNDRY	1.25.1.30448	
IBP Lead Off	30553	MNDRY_EVT_IBP_LEAD_OFF	99MNDRY	1.1.1 – 1.1.8.30553 1.1.11-1.1.12.30553 1.1.0.30553	IBP1-IBP8 pART,pCVP other IBP…
IBP Need Zero	30554	MNDRY_EVT_IBP_NEED_ZERO	99MNDRY	1.1.1 – 1.1.8.30554 1.1.11-1.1.12.30554 1.1.0.30554	IBP1-IBP8 pART,pCVP other IBP…
IBP Communication Error	30192	MNDRY_EVT_COMM_ERROR	99MNDRY	1.1.1 – 1.1.8.30192 1.1.11-1.1.12.30192 1.1.0.30192	IBP1-IBP8 pART,pCVP other IBP…
IBP Communication Stopped	30191	MNDRY_EVT_COMM_STOP	99MNDRY	1.1.1 – 1.1.8.30191 1.1.11-1.1.12.30191 1.1.0.30191	IBP1-IBP8 pART,pCVP other IBP…
IBP Initialization Error	30189	MNDRY_EVT_INIT_ERROR	99MNDRY	1.1.1 – 1.1.8.30189 1.1.11-1.1.12.30189 1.1.0.30189	IBP1-IBP8 pART,pCVP other IBP…
IBP Sensor Fault	30557	MNDRY_EVT_SENSOR_FAULT	99MNDRY	1.1.1 – 1.1.8.30557 1.1.11-1.1.12.30557 1.1.0.30557	IBP1-IBP8 pART,pCVP other IBP…
BP Battery Error	30430	MNDRY_EVT_BATTERY_ERROR	99MNDRY	1.0.0.30430	
CO2 No Watertrap	30268	MNDRY_EVT_CO2_NO_WATERTRAP	99MNDRY	1.8.0.30268	
CPR Sensor Bat. Charge Err	30405	MNDRY_EVT_BATTERY_CHARGING_ERROR	99MNDRY	1.31.17.30405	
CPR Sensor Low Battery	196802	MDC_EVT_BATT_LO	MDC	1.31.17.196802	

CPR Sensor Cable Fault	30551	MNDRY_EVT_CABLE_ERROR	99MNDRY	1.31.17.30551	
Change CPR Sensor Battery	203286	MDC_EVT_ADVIS_BATT_REPLACE	MDC	1.31.17.203286	
CPR Sensor Need Service	30927	MNDRY_EVT_SERVICE_REQ	99MNDRY	1.31.17.30927	
CPR Sensor Err	30928	MNDRY_EVT_SENSOR_ERROR	99MNDRY	1.31.17.30928	

FOR YOUR NOTES