

Software Protocol

MEDIBUS for

Evita Infinity V500

Software 2.n

Babylog VN500

Software 2.n

WARNING

For a full understanding of this software protocol, the user should carefully read this document as well as the Instructions for Use of the basic device.

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What is new for Evita Infinity V500 SW 2.n

Airway related measurements

- VT/kg BW
- VTspon mean
- VTispon mean
- VTespon mean

CO₂ related measurement

- Expiratory CO₂ concentration measurement in Vol%
- Serial dead space Vds
- Dead space ventilation Vds/VTe
- CO2 production V'CO2

Settings

Pressure Variability

SmartCare/PS

Settings

- SC-Body height
- SC-Upper limit PEEP PEEP max
- SC-Upper limit inspiratory O2 FiO2 max
- SC-Upper limit respiratory rate in the guideline RRspon high
- SC-Lower limit respiratory rate in the guideline RRspon low
- SC-Lower limit tidal volume VT low
- SC-Upper limit endtidal CO₂ in the guideline etCO₂ high

Text message

 If the function "Change guideline" is activated, the message Customizing is displayed.

Text message

- Patient category Neonates
- Display of the actual language
- Enable Variable PS
- Ventilation modes
 - Mode PC-PSV
 - Mode PC-PSV +VG

For Your Safety and that of Your Patients

Strictly follow the Instructions for Use

Any use of the Software Protocol requires full understanding and strict observation of the Instructions for Use of Evita Infinity V500 and Babylog VN500.

For general description of the protocol please refer to "Dräger RS 232 MEDIBUS Protocol Definition" (order-no. 9028258, 10th edition – December 2007).

Port Specification

Connector

Type RS-232-C

9-pin Sub D (male)

COM1, 2, 3

Pins:

Pin 1 DCD Pin 2 RXD Pin 3 TXD Pin 4 DTR Pin 5 **GND** Pin 6 DSR Pin 7, 8 RTS/CTS Pin 9 RI Housing SHLD

Galvanic Isolation 1.5 kV

Location rear side of Medical Cockpit

Infinity C500,

labeled with:

Cable Requirements

Length maximal 1.5 m

Port Configuration

Baudrate 1200, 2400, 4800, 9600, 19200,

38400 Baud

Data-bits 8
Stop-bits 1, 2

Parity even, odd, none

Supported Commands and Data

Languages

Alarm phrases and text messages are supported in American English.

MEDIBUS commands

Transmitted and responded commands

Code	Command specification
30H	NOP do nothing
51H	ICC Initialise Communication
52H	RDI Request Device Identification
56H	Realtime configuration changed

Code	Command specification
2EH	Request current ALARMS Codepage 2
4AH	Configure Data Response
53H	Request Realtime Configuration
54H	Configure Realtime Transmission
55H	STOP communication

Processed and responded commands

Code	Command specification
24H	Request current DATA
25H	Request current LOW ALARM LIMITS
26H	Request current HIGH ALARM LIMITS
27H	Request current ALARMS
28H	Request DATE & TIME
29H	Request current SETTINGS
2AH	Request current TEXT MESSAGES
2BH	Request current DATA Codepage 2
2CH	Request current LOW ALARM LIMITS Codepage 2
2DH	Request current HIGH ALARM LIMITS Codepage 2

Sync commands in realtime stream

Code	Command specification
C1H	Enable/Disable Datastream 1 to 4
C6H	Ventilator Inspiratory Cycle

Device identification

Only for Evita Infinity V500

Code	Name	Version	ID-Number
52H	V500	mm.nn	8270

mm.nn – current device software version (e.g. 01.00).

Medibus version: 04.03 for device version 01.00 and higher

Only for Babylog VN500

Code	Name	Version	ID-Number
52H	VN500	mm.nn	8272

Realtime data

For Evita Infinity V500 and Babylog VN500

Code	Data description	Unit	Scale
00H	Airway pressure Paw	mbar	minValue="-80" maxValue="120" resolution="0.05"
01H	Flow Patient (insp./exp.)	L/min	minValue="-180" maxValue="180" resolution="0.09"
03H	Volume since inspiration began	mL	minValue="0" maxValue="5500" resolution="1.35"
06H	Expiratory CO2 concentration	mmHg	minValue="0" maxValue="100" resolution="0.025"
08H	Expiratory CO2 concentration	Vol%	minValue="0" maxValue="15" resolution="0.004"
1CH	Ptrach	mbar	minValue="-80" maxValue="120" resolution="0.05"

Measurements and Alarm Limits

The underscore character used in the format column is transmitted as an ASCII "space" character (20H).

M Measured dataLL Low alarm limitHL High alarm limit

Airway related Measurements

Code page 1 – for Evita Infinity V500 and Babylog VN500

Code	Data description	Unit	Format	М	LL	HL
07H	Compliance <i>Cdyn</i>	L/bar	_XXX XX.X X.XX	х		
08H	Resistance R	mbar/L/s	XXXX XX.X	X		
2AH	r ²	-	X.XX	X		
6FH	Tispon	sec	XX.X X.XX	x		
71H	Minimum Airway Pressure <i>Pmin</i>	mbar	_XXX _X.X	X		
73H	Mean Airway Pressure Pmean	mbar	_XXX _X.X	x		
78H	PEEP Airway Pressure PEEP	mbar	_XXX _X.X	x		
7BH	RRmand	1/min	XXX_	X		
7CH	MVmand	L/min	XX.X X.XX	x		
7DH	Peak Airway Pressure PIP	mbar	_XXX _X.X	Х		x
7EH	VTmand	L	X.XX	X		
7FH	VTspon	L	XXXX X.XX	Х		

Code	Data description	Unit	Format	М	LL	HL
83H	VTemand	mL	XXXX XX.X	х		
84H	VTespon	mL	XXXX XX.X	x		
85H	Insp. mandatory Tidal Volume VTimand	mL	XXXX XX.X	x		
88H	Tidal Volume <i>VT</i>	mL	XXXX XX.X	x	х	x
8BH	Inspiratory spont. Tidal Volume VTispon	mL	XXXX XX.X	x		
В2Н	MVleak	L/min	XX.X X.XX	x		
взн	Leakage rel. % <i>leak</i>	%	_XXX	Х		
В5Н	Spont. Respiratory Rate <i>RRspon</i>	1/min	XXX_	Х		
В6Н	Spontaneous Fraction Min. Vol. %MVspon (MVspon : MVtotal)	%	_xxx	x		
В7Н	Spont. Minute Volume <i>MVspon</i>	L/min	XX.X X.XX	x		
В9Н	Minute Volume MV	L/min	XX.X X.XX	x	х	x
С9Н	Rapid Shallow Breathing Index <i>RSB</i>	1/L x min	XXXX	х		
D6H	Respiratory Rate (RRtotal) RR	1/min	XXX_	Х		х
E7H	<i>I:E</i> I part	_	XXXX XX.X	х		
E8H	<i>I:E</i> E part	_	XXXX XX.X	Х		

Code page 1 – only for Evita Infinity V500

Code	Data description	Unit	Format	М	LL	HL
72H	Occlusion Pressure P0.1	mbar	_XXX _X.X	х		
74H	Plateau Airway Pressure Pplat	mbar	_XXX _X.X	x		
79H	Intrinsic PEEP <i>PEEPi</i>	mbar	_XXX _X.X	x		
81H	Trapped Volume <i>Vtrap</i>	mL	XXXX XX.X	x		

Code	Data description	Unit	Format	М	LL	HL
8DH	Negative Inspiratory Force NIF	mbar	_xxx	Х		
			_X.X			

Code page 1 – only for Babylog VN500

Code	Data description	Unit	Format	М	LL	HL
86H	Tidal Volume for HFO VThf	mL	XXXX	Х		
			XX.X			

Code page 2 – for Evita Infinity V500 and Babylog VN500

Code	Data description	Unit	Format	M	LL	HL
00H	VTspon	mL	XXXX XX.X	Х		
04H	<i>I:Espon</i> I part	-	XXXX XX.X	x		
05H	<i>I:Espon</i> E part	-	XXXX XX.X	x		
06H	Elastance E	mbar/L	XXXX XX.X	x		
07H	Tau	sec	XX.X X.XX	x		
0BH	C20/Cdyn	_	X.XX	Х		
21H	Expiratory Tidal Volume VTe	mL	XXXX XX.X	x		
22H	Inspiratory Tidal Volume <i>VTi</i>	mL	XXXX XX.X	x		
23H	EIP	mbar	_XXX _X.X	x		
24H	Tlow (resulting Tlow from expiratory flow cycling)	sec	XX.X X.XX	x		
31H	Phigh	mbar	_XXX _X.X	x		
32H	Plow	mbar	_XXX _X.X	x		
36H	VT/kg BW	mL/kg	XX.X XXXX	Х		

Code page 2 - only for Evita Infinity V500

Code	Data description	Unit	Format	M	LL	HL
0AH	Cstat (Low Flow) <i>Cstat</i>	mL/mbar	_XXX XX.X X.XX	Х		
33H	VTspon mean	mL	XX.X XXXX	X		
34H	VTispon mean	mL	XX.X XXXX	X		
35H	VTespon mean	mL	XX.X XXXX	Х		

CO₂ related measurements

Code page 1 – for Evita Infinity V500 and Babylog VN500

Code	Data description	Unit	Format	M	LL	HL
DBH	Entidal CO2 etCO2	Vol%	XX.X	Х	Х	Х
E6H	Entidal CO2 etCO2	mmHg	_XXX	Х	Х	х

etCO₂ values and alarm limits are transmitted according to the configuration on the device screen (mmHg or Vol%).

If kPa is configured be aware that the Medibus alarm limits will be transmitted with mmHg.

Code page 1 - only for Evita Infinity V500

Code	Data description	Unit	Format	М	LL	HL
89H	Serial dead space <i>Vds</i>	mL	XXXX XX.X	Х		
8AH	Dead space ventilation Vds/VTe	%	_XXX	Х		
09H	CO2 production V'CO 2	mL/min	XXXX	Х		

O₂ related measurements

Code page 1 – for Evita Infinity V500 and Babylog VN500

Code	Data description	Unit	Format	М	LL	HL
F0H	Insp. O2 <i>FiO</i> 2	%	XXX_	Х		

SmartCare measurements

Code page 2 – only for Evita Infinity V500

Code	Data description	Unit	Format	M	LL	HL
1AH	SC-Target ΔPsupp Δ Psupp goal	mbar	_XX_	Х		
1BH	SC-Rated ΔPsupp SC- Δ Psupp	mbar	_XX_	х		
1CH	SC-Duration of patient session (Hours)	h	XXXX	х		
1DH	SC-Duration of patient session (Minutes)	min	XX	Х		
1EH	SC-RRspon	1/min	XX	Х		
1FH	SC-VT	mL	XXXX	Х		
28H	SC-etCO2	mmHg	XX	х		

Settings

For Evita Infinity V500 and Babylog VN500

Code	Device Setting	Unit	Format
01H	Insp. O2 <i>FiO</i> 2	%	_XXX_
02H	Inspiratory Flow <i>Flow</i>	L/min	XXX.X
04H	VT	L	X.XXX
40H	VT	mL	XXX.X
05H	Inspiratory Time <i>Ti</i>	sec	XX.XX
09H	Respiratory Rate RR	1/min	XXX.X
0BH	PEEP / CPAP PEEP	mbar	_XX.X
0CH	Interm. PEEP ∆intPEEP	mbar	_XX.X
0DH	APRV Low Pressure Plow	mbar	XX_
0EH	APRV High Pressure Phigh	mbar	XX_
0FH	APRV Low Time <i>Tlow</i>	sec	XX.XX
10H	APRV High Time <i>Thigh</i>	sec	_XX.X
11H	Apnea Time <i>Tapn</i>	sec	_XX.X
12H	∆Psupp	mbar	XX_
13H	Max Pressure Pmax	mbar	XXX.X
29H	Flow trigger	L/min	_XX.X
2EH	Slope	sec	_X.XX
3CH	Flow Assist	mbar*s/L/10	XXXXX
3DH	Vol. Assist	mbar/L/10	XXXXX
42H	RRapn	1/min	XXX.X
44H	VT Apnea VTapn	L	X.XXX
6EH	VT Apnea VTapn	mL	_XXXX
			XXX.X
45H	Pinsp	mbar	XXX.X
46H	ATC Compensation <i>Compens</i> .	%	_XXX_
47H	ATC Tube Diameter <i>Tube Ø</i>	mm	_XX.X
4EH	Tdisconnect	sec	XX_
63H	Timax	sec	XX.XX
65H	Flow O ₂ Therapy <i>Flow</i>	L/min	_XX.X
73H	Expiratory compensation	%	XXX.X

Code	Device Setting	Unit	Format
7DH	Tlow max	sec	XX.XX

Only for Evita Infinity V500

Code	Device Setting	Unit	Format
72H	Inspiratory termination	%	XXX.X
7BH	Pressure Variability	%	XXX.X

Only for Babylog VN500

Code	Device Setting	Unit	Format
2AH	Frequency of oscillation in HFO <i>fhf</i>	Hz	XX_
66H	Mean airway pressure in HFO <i>MAPhf</i>	mbar	_XX.X
67H	I to E in HFO <i>I:Ehf</i> I part	_	X
68H	I to E in HFO <i>I:Ehf</i> E part	_	X
69H	Pressure amplitude in HFO Ampl hf	mbar	_XX.X
6AH	Tidal volume in HFO <i>VThf</i>	mL	XXX.X
6BH	Respiratory rate of sigh in HFO <i>RRsigh</i>	1/min	XXX.X
6CH	Sigh inspiratory time in HFO <i>Tisigh</i>	sec	XX.XX
6DH	Sigh pressure in HFO Psigh	mbar	XXX.X

SmartCare/PS settings

Only for Evita Infinity V500

Code	Device Setting	Unit	Format
74H	SC-Body weight	kg	XXX.X
75H	SC-Start of night rest	h	XX_
76H	SC-End of night rest	h	XX_
79H	SC-Upper limit inspiratory O2 FiO2 max	%	_XXX_
7AH	SC-Upper limit PEEP PEEP max	mbar	_XX.X
7EH	SC-Lower limit respiratory rate in the guideline <i>RRspon low</i>	1/min	_XXX_
7FH	SC-Upper limit respiratory rate in the guideline <i>RRspon high</i>	1/min	_XXX_
80H	SC-Lower limit tidal volume <i>VT low</i>	mL/kg	_XX.X
81H	SC-Upper limit endtidal CO2 in the guideline etCO2 high	mmHg	_XX
82H	SC-Body height	cm	xxx

Text Messages

For Evita Infinity V500 and Babylog VN500

Code	Text message	
Device modes		
12H	Mode DS	
1EH	Ventilator STANDBY	
Spontaneous ve	entilation modes	
0AH	Mode SPN-CPAP	
	Mode SPN-CPAP +VS Mode SPN-CPAP +PS	
Pressure contro	olled ventilation modes	
0EH	Mode PC-BIPAP Mode PC-BIPAP +PS	
18H	Mode PC-SIMV	
	Mode PC-SIMV +PS Mode PC-SIMV +VG	
	Mode PC-SIMV +PS +VG	
1AH	Mode PC-APRV Mode PC-APRV +AutoRelease	
35H	Mode SPN-PPS	
3ЕН	Mode PC-PSV Mode PC-PSV +VG	
47H	Mode PC-AC Mode PC-AC +VG	
6AH	Mode PC-CMV Mode PC-CMV +VG	
6BH	Mode O ₂ Therapy	
Apnoe ventilation	on mode	
11H	Mode APNEA VENTILATION	

	Text message	
Ventilation	additional settings	
5CH	+PS	
74H	+VS	
69H	+VG	
5EH	+AF	
75H	+AutoRelease	
87H	+Sigh	
Trigger		
6CH	Abdominal External Trigger	
ATC		
6DH	ATC	
68H	Endotracheal	
70H	Tracheostoma	
6EH	Expiratory ATC	
6FH	Inspiratory ATC	
71H	Apnea Ventilation enabled	
72H	Apnea Ventilation Auto Return	
Patient cate	egories	
21H	Neonates	
3AH	Pediatrics	
Aditus		
48H	IV-Invasive Ventilation	
49H	NIV-Non Invasive Ventilation	
Humidifier		
76H	Active humid unheated	
77H	Active humid heated	
78H	HME / Filter	

Code	Text message
CO ₂ units	
22H	mmHg
23H	kPa
Actual languag	e
2CH	Actual language

Only for Evita Infinity V500

Code	Text message	
Volume conti	rolled ventilation modes	
01H	Mode VC-CMV Mode VC-CMV +AF	
02H	Mode VC-AC Mode VC-AC +AF	
06H	Mode VC-SIMV Mode VC-SIMV +PS Mode VC-SIMV +AF Mode VC-SIMV +PS +AF	
0CH	Mode VC-MMV Mode VC-MMV +PS Mode VC-MMV +AF Mode VC-MMV +PS +AF	
Ventilation ac	dditional settings	
5EH	+AF	
8EH	Enable Variable PS	
Patient categories		
20H	Adult	

Code	Text message
SmartCare/PS	
Therapy phase	
79H	SC Therapy phase: Adapting
7AH	SC Therapy phase: Observing
7BH	SC Therapy phase: Maintaining
Classification	
7CH	Diagnosis: Normal Ventilation
7DH	Diagnosis: Hyperventilation
7EH	Diagnosis: Hypoventilation
7FH	Diagnosis: Insufficient Ventilation
80H	Diagnosis: Tachypnea
81H	Diagnosis: Severe Tachypnea
82H	Diagnosis: Unexplained Hyperventilation
83H	Diagnosis: Central Hypoventilation
84H	COPD
85H	Neurologic Disorder
86H	Night rest
8FH	Customizing

Only for Babylog VN500

Code	Text message
Pressure o	ontrolled ventilation modes
1BH	Mode PC-HFO Mode PC-HFO +VG Mode PC-HFO +Sigh Mode PC-HFO +Sigh +VG

Alarm Messages

There are no alarm messages sent in standby mode.

Code page 1 – for Evita Infinity V500 and Babylog VN500

Code	Alarm Description	Priority	Alarm phrase
08H	FiO ₂ low	18	% O2 LOW
08H	FiO ₂ low	28	% O2 LOW
10H	Airway pressure high	30	PAW HIGH
12H	Air supply down, ASU active	5	AIR SUPPLY?
12H	Nebulizer uses O2 only	16	AIR SUPPLY ?
12H	ASU inop	27	AIR SUPPLY?
12H	Air supply down	31	AIR SUPPLY?
13H	Nebulizer uses Air only	16	LO O2 SUPPLY
13H	O2 supply down	31	O2 SUPPLY ?
19H	MV low	29	MIN VOL LOW
27H	etCO ₂ low	28	ET CO2 LOW
28H	etCO ₂ high	28	ET CO2 HIGH
33H	VT not reached	6	VOL INCONST
33H	VT not reached, leakage	6	VOL INCONST
33H	Tidal volume low	20	TIDAL VOL LO
36H	O2 supply down	5	NO OXYGEN
37H	FiO ₂ high	18	% O2 HIGH
37H	FiO ₂ high	28	% O2 HIGH
3EH	Check CO2 cuvette	16	CO2 NOT CAL
3EH	CO2 zero ?	28	CO2 ZERO CAL
4BH	Internal battery failure	17	BATTERY ERR
4BH	Internal battery discharged	31	BATTERY LOW
64H	Clean CO2 cuvette	28	CLEAN CO2
65H	Alarm system malfunction	5	SPEAKER FAIL
65H	Auxiliary alarm failure	17	SPEAKER FAIL
6AH	CO ₂ measurement failed	28	CO2 ERR
78H	Medibus communication failure	1	RS232COM ERR

Code	Alarm Description	Priority	Alarm phrase
90H	High respiratory rate	29	RESP RATE HI
94H	Oxygenation maneuver failure	13	CHECK RESP
98H	Apnea	29	APNEA RESP
9AH	Airway pressure low	30	PAW LOW
9AH	Disconnection ?	30	DISCONNECT
9BH	MV high	29	MIN VOL HIGH
9FH	Ventilation unit restarted	24	EVITA ERR
9FH	Ventilator failure	31	VENT ERR
A1H	O2 measurement failed	28	% O2 ERR
A2H	Gas delivery system needs calibration	1	VOL CAL?
A2H	Gas delivery system needs calibration	31	VOL CAL?
АЗН	Airway pressure negative	18	PAW NEGATIVE
АЗН	Airway pressure negative	28	PAW NEGATIVE
A4H	Volume inaccurate	5	VOL ERR
A4H	Flow measurement inaccurate	16	VOL ERR
ADH	Pressure measurement inaccurate	16	PRESS ERR
ADH	Pressure measurement disturbed	18	PRESS ERR
ADH	Pressure sensor? Ventilation impaired	18	PRESS ERR
ADH	Pressure measurement failed	31	PRESS ERR
вон	Expiratory valve malfunction	27	EXP-VALVE?
вон	Expiratory valve malfunction	30	EXP-VALVE ?
В8Н	Device temp. measurement failed	18	AW-TEMP INOP
В9Н	Device temp. measurement failed	18	COOLING?
В9Н	Device temp. measurement failed	18	AW-TEMP SENS
C4H	Pressure limited! VT not reached	6	PRESSURE LIM
C4H	Pressure Limited	6	PRESSURE LIM
С9Н	Device temperature high	30	INT.TMP.HIGH
D6H	Hose system connected reversely	16	HOSES MIXED?
D7H	Hose system not compatible with patient type	16	WRONG HOSES?
D8H	Accessory ID detection failure	3	ID-FUNC-INOP
D9H	CO2 sensor ?	28	CO2 SENSOR ?
DAH	PEEP high	28	PEEP HIGH
DAH	Plow not reached	28	PLOW HIGH
E6H	Air pressure regulator failed	17	AIR PRESS HI

Code	Alarm Description	Priority	Alarm phrase
E7H	O2 pressure regulator failed	17	HI O2 SUPPLY
ECH	ASU communication failure	5	GAS FAILURE
ECH	ASU device failure	17	GAS FAILURE
ECH	ASU communication failure	28	GAS FAILURE
ECH	ASU device failure	28	GAS FAILURE
F2H	Silence key faulty / stuck	14	SYSTEM FAULT
F2H	Rotary knob faulty / stuck	14	SYSTEM FAULT
F2H	Silence key faulty / toggling	14	SYSTEM FAULT
F2H	Rotary knob faulty / toggling	14	SYSTEM FAULT
F2H	Device failure	31	SYSTEM FAULT

Code page 1 – only for Evita Infinity V500

Code	Alarm Description	Priority	Alarm phrase
33H	Volume not constant, Pmax active	6	VOL INCONST
42H	Incompatible flow sensor detected	1	FLOW SENSOR?
42H	Expiratory flow sensor calibration failed	5	FLOW SENSOR?
42H	Flow sensor?	30	FLOW SENSOR?
42H	Expiratory flow measurement failed	31	FLOW SENSOR?
A4H	Flow sensor? Ventilation impaired	18	VOL ERR
E8H	Tidal volume high	8	TIDAL VOL HI
E8H	Tidal volume high	20	TIDAL VOL HI

Code page 1 – only for Babylog VN500

Code	Alarm Description	Priority	Alarm phrase
10H	Airway pressure high	30	PAW HIGH HF
АЗН	Airway pressure (averaged) negative	18	PAW NEGATIVE
АЗН	Airway pressure (averaged) negative	28	PAW NEGATIVE
ECH	Air and O2 supply insufficient <hfo></hfo>	17	GAS FAILURE

Code page 2 – for Evita Infinity V500 and Babylog VN500

Code	Alarm Description	Priority	Alarm phrase
37H	Air supply down	5	NO AIR
3ВН	Ambient pressure sensor ?	16	AMB PRESS ?
5AH	Internal battery activated	21	BATTERY ON
5AH	Internal battery activated	29	BATTERY ON
5CH	Internal battery low	31	BATT. LOW
6AH	Airway obstructed?	30	TUBE OBSTRUC
90H	Neo. flow sensor changed ?	5	NEO FLOW?
90H	Neo. flow sensor ?	6	NEO FLOW?
90H	Neo. flow sensor calibration required	17	NEO FLOW?
90H	Neo. flow sensor soiled	17	NEO FLOW?
90H	Neo. flow sensor failure	17	NEO FLOW?
90H	Neo. flow calibration unsuccessful	17	NEO FLOW?
90H	Neo. flow sensor ?	23	NEO FLOW?
90H	Neo. flow sensor ?	28	NEO FLOW?
90H	Neo. flow sensor calibration required	30	NEO FLOW?
90H	Neo. flow sensor ?	30	NEO FLOW?
90H	Neo. flow sensor failure	30	NEO FLOW?
90H	Neo. flow measurement failed	30	NEO FLOW?
90H	Neo. flow calibration unsuccessful	30	NEO FLOW?
91H	Check settings	18	LOSS OF DATA
91H	Loss of data	24	LOSS OF DATA
91H	Loss of data	31	LOSS OF DATA
93H	Apnea ventilation	23	APNEA VENT
94H	Device check incomplete	5	CHECK EVITA
94H	Suction maneuver overused?	6	CHECK RESP
99H	Insp. hold interrupted	6	INSPHOLD END
94H	Suction maneuver failure	13	CHECK RESP
94H	Oxygenation maneuver failure	13	CHECK RESP
94H	Execute device check	22	CHECK EVITA
94H	Check ventilation settings	24	CHECK EVITA
94H	Device check failed.	23	CHECK EVITA
94H	Check ventilator settings	24	CHECK EVITA

Code	Alarm Description	Priority	Alarm phrase
9CH	Leakage	6	LEAKAGE
9FH	Nebulization finished	5	NEBULIZ. OFF
9FH	Nebulization aborted	17	NEBULIZ. OFF
A1H	Internal power supply failure	17	POWER ERR
A9H	License transfer failed	2	SET.CANCELED
A9H	Import failed, check settings	2	SET.CANCELED
ССН	PEEP low	28	PEEP LOW
ССН	Plow falls short of set limit	28	PEEP LOW
CEH	Hose kinked	22	HOSE KINKED
D1H	ID breathing circuit failure	3	HOSE ERROR
D7H	Current hose sets does not match selected configuration	16	WRONG HOSES?
DAH	ID Expiratory valve failure	3	EXP TIME ERR
DAH	ID Breathing circuit failure	3	EXP TIME ERR

Code page 2 – only for Evita Infinity V500

Code	Alarm Description	Priority	Alarm phrase
94H	Low Flow PV-Loop maneuvre overused?	6	CHECK RESP
94H	Low Flow PV-Loop maneuvre failure	13	CHECK RESP
9EH	Exp. hold interrupted	6	EXPHOLD END
BAH	Tidalvol. high (minimal pressure)	20	PMIN REACHED
DAH	ID Flow sensor failure	13	EXP TIME ERR

Code page 2 – only for Babylog VN500

Code	Alarm Description	Priority	Alarm phrase
CAH	Air supply insufficient <hfo></hfo>	17	NO AIR
ECH	HFO not possible	31	EJECTOR INOP
F4H	Mean Airway Pressure Low	30	MAP LOW

Alarm messages for SmartCare/PS

Code page 2 – only for Evita Infinity V500

Code	Alarm Description	Priority	Alarm phrase
E5H	SC: Patient Session aborted	28	SC ABORTED
E6H	SC: Internal error! Patient Session aborted	28	SC INOP
E7H	SC: Central Hypoventilation	28	CENTRAL HYPO
E8H	SC: Persistent Tachypnea	28	PERS TACHYP
E9H	SC: Unexplained Hyperventilation	28	UNEXPL HYPER
EAH	SC: Can PEEP be reduced?	4	PEEP REDUCIB
EBH	SC: SBT successful	4	CONS SEPARAT
F3H	SC: Can FiO2 be reduced?	4	FiO2 REDUCIB

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