Honeywell

W8735A1013 EnviraCOM™ Serial Adapter

INSTALLATION INSTRUCTIONS

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APPLICATION

The W8735A1013 EnviraCOM™ Serial Adapter provides a host computer, gateway, or controller, with an RS-232 port, local access to an EnviraCOM™ HVAC System. The host provides the application to control the W8735A1013. The W8735A1013 EnviraCOM™ Serial Adapter is powered through the EnviraCOM™ connection and is optically isolated for universal compatibility. The W8735A1013 uses the EnviraCOM™

Table 1. W8735A1013 Description

Model	Application	Terminals	Comment
W8735A1013	Local control of Envira- COM™ HVAC system using host computer, gateway or controller with RS- 232 serial port. Host provides applica- tion.	1, 2, 3 – EnviraCOM™ DB9 – RS-232	W8735A1013 used with host. Host provides application software and user interface. As an application software any terminal tool like Microsoft® HyperTerminal can be used during initial evaluation. W8735A1013 provides means to move data from EnviraCOM™ Bus to RS-232 port.



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INSTALLATION

When installing this product...

- Read these instructions carefully. Failure to follow these instructions can damage the product or cause a hazardous condition
- Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
- Installer must be a trained, experienced service technician.
- After completing installation, use these instructions to check out the product operation.



Electrical Hazard.

Can cause electrical shock or equipment damage.

Disconnect power before beginning installation.

Selecting Location

Locate the W8735A1013 near the host or near the HVAC system, as determined most suitable for the application.

Mounting W8735A1013 EnviraCOM™Serial Adapter



Electrical Hazard.
Equipment Mounting Damage Hazard.
Mounting W8735A1013 inside HVAC can
damage equipment.

Mount W8735A1013 outside HVAC equipment.

Mounting the W8735A1013 is optional. When mounting is desired, use the sheet of two-sided adhesive tape (provided).

- Ensure the device is clean and dry and free of any oil or dirt.
- 2. Peel the protective lining from one side of the tape and press it to the back of the W8735A1013.
- Remove the protective lining from the second surface of the tape and press the W8735A1013 to the mounting surface at the desired mounting location.

Wiring



Electrical Hazard.
Equipment Mounting Damage Hazard.
Mounting W8735A1013 inside HVAC can
damage equipment.

Mount W8735A1013 outside HVAC equipment.

- 1. Refer to Fig. 1 for wiring diagram.
- Loosen terminal screws on W8735A1013 and connect system wires. See Fig. 2.
- 3. Securely tighten each terminal screw.
- Connect serial cable to W8735A1013 DB9 RS-232 connector to the host RS-232 connector (see host installation instructions for details), using a serial cable (not provided with W8735A1013).

NOTE: Maximum distance between W8735A1013 DB9 RS-232 connector and the host RS-232 connector is 25 feet.

5. Restore power to HVAC systems and host.

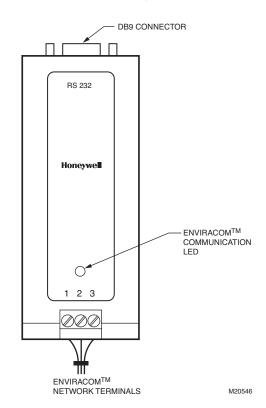


Fig. 1. Wiring W8735A1013

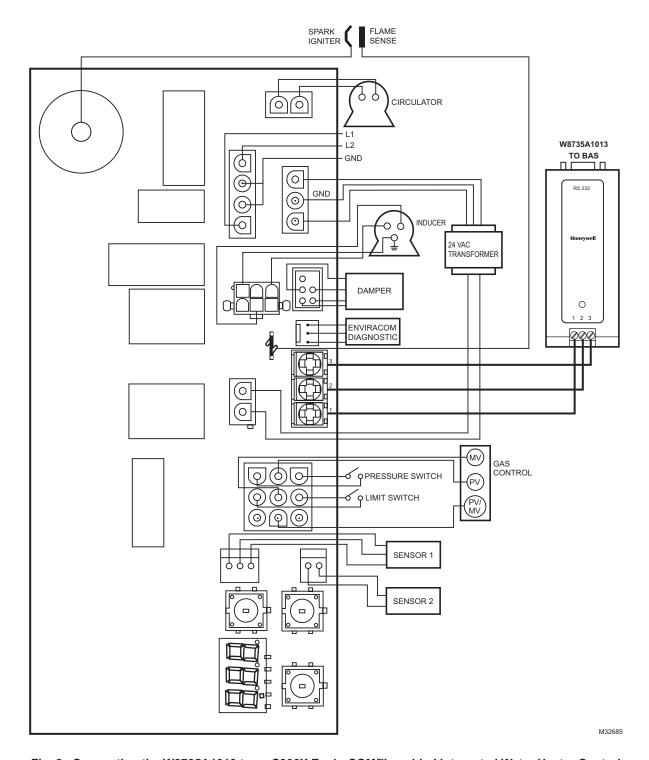


Fig. 2. Connecting the W8735A1013 to an S936X EnviraCOM™ enabled Integrated Water Heater Control

Table 2. Terminal Designations

W8735A1013 Terminal Designations	Function
1	To EnviraCOM™ network terminal 1 (data).
2	To EnviraCOM™ network terminal 2 (24 Vac).
3	To EnviraCOM™ network terminal 3 (24 Vac).
Serial	Connect W8735A1013 DB9 connector to host RS-232 serial port using serial cable (not provided with W8735A1013).

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Host Port Configuration

The configuration of the host:

Baud rate: 19200 bps.

Parity: none.
Data bits: 8.
Stop bits: 1.
Flow control: none.

LED Description

The green Light Emitting Diode (LED) on the front of W8735A1013 is used to show EnviraCOM™ Bus activity as follows:

LED blinks rapidly Device is currently

transmitting information on

communications bus.

LED blinks once Device received and

acknowledged a message.

LED on constantly Device failure. Replace

device.

LED off constantly Wiring problem if device is

not functioning correctly and there is no LED activity at least once a minute. Check wiring to communications bus terminals 1, 2 and 3.

LED blinks continuously It is normal for LED to blink

continuously during startup

and discovery.

Wiring problem if device is not functioning correctly and there is a continuous series of LED blinks. Check wiring to communications bus terminals 1, 2 and 3.

Glossary of Terms

RS-232 – Long-established standard that describes the physical interface and protocol for relatively low-speed serial data communication between computers and related devices. Originally defined by industry trade group, the Electronic Industries Association (EIA), for teletype devices.

Serial – Only one event occurring at a time, contrasted with parallel, which means more than one event happening at a time.

DB9 – Standard 9-pin connector. DB9 used on W8735A1013 is a female configuration.

 $\textbf{EnviraCOM}^\intercal \textbf{-}$ Three-wire communications protocol used in HVAC products.

Host – Supports the application software. Devices such as a computer, gateway, controller are examples of a host.

HVAC – Heating, Ventilation and Air Conditioning.

EnviraCOM™ Bus

Communication over the EnviraCOM $^{\text{TM}}$ bus is managed by transmitting messages, one by one. There are three roles of EnviraCOM $^{\text{TM}}$ messages: Query, Report and Change Request.

- Query messages are used to retrieve information from devices.
- Devices respond to query messages by sending Report messages of the same message class.
- A Change Request message is used to request a change in settings of a device. Devices respond to Change Request messages with Report messages of the same message class to confirm the final settings.

Message Format

Messages sent or received from the W8735A1013 EnviraCOM™ Serial Adapter are coded in ASCII format (case sensitive) as follows with individual parts delimited by space characters (20 hex). All numbers are in hexadecimal format. The default message priority is medium.

NOTE: Message Class along with Message Instance Number defines type of message.

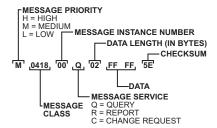


Fig. 3. Message format guide.

In addition to EnviraCOM™ messages, the W8735A1013 sends status messages to the host application.

Table 3. Status Messages.

Message	Description
[Reset - Vxx.xx]	Sent during power-up where Vxx.xx denotes the version of adapter firmware, e.g. V01.11.
[Idle]	Sent when EnviraCOM™ bus idle state is detected.
[Ack]	Sent when received message contained a valid checksum and message has been queued for transmission to EnviraCOM™ bus.
[Nak]	Sent when received message contained an invalid checksum.
[Sent]	Sent when queued message has been successfully transmitted to EnviraCOM™ bus.

NOTE: The host application will not send any new message before the previous one is transmitted to the EnviraCOM™ bus (i.e. prior receiving [Sent] status message).

Each message sent to W8735A1013 EnviraCOM™ Serial Adapter is terminated with Carriage Return character (0D hex) and optionally followed by Line Feed character (0A hex). Each message received from W8735A1013 EnviraCOM™ Serial Adapter is terminated with following sequence of characters:

Carriage Return (0D hex) + Line Feed (0A hex) + ">" (3E hex)

Message Checksum

Checksum is used as indicator of failure free communication between host application and W8735A1013 EnviraCOM™ Serial Adapter. Host application should check the checksum of received messages and only process messages with a correct checksum. W8735A1013 EnviraCOM™ Serial Adapter checks the checksum of messages received from the host application and sends the received messages to Envira-COM™ bus only if no corruption is detected.

Checksum can be computed using Exclusive OR operation \oplus over all bytes of a message.

Example:

Received message:

M 10E0 01 R 08 00 00 CE 45 D0 41 08 40 AB

Message priority and service is converted to hexadecimal number based on Table 4 and 5.

Table 4. Message Priority.

Priority	Value
L – Low	0(hex)
M – Medium	40(hex)
H – High	80(hex)

Table 5. Service Priority.

Service	Value
Q – Report Query	0(hex)
R – Report	40(hex)
C – Change Request	80(hex)

Checksum is computed as:

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 $40 \oplus 10 \oplus E0 \oplus 01 \oplus 40 \oplus 08 \oplus 00 \oplus 00 \oplus CE \oplus 45 \oplus D0 \oplus 41 \oplus 08 \oplus 40 = AB$

SELECTED MESSAGE CLASSES

The following sections describe usage of most common message classes. Note that devices do not need to support all of the messages and sending of such messages will neither have an effect nor response will be received.



Usage beyond provided examples is not supported by Honeywell.

NOTE: Messages can be shorter than those shown in the following examples (truncated from the right). The callouts show samples of what bytes of information may be available to a device. Not all devices can transmitt all information.

Node Identification 1 (10E0)

Message is used to identify devices connected to EnviraCOM™ bus.

Whenever any device sends a Query message to EnviraCOM™ bus, Report message from each connected device is transmitted over the EnviraCOM™ bus. Report message contains encoded OS Number.

There are two formats of OS Number. Fig. 4 shows both formats as a response of two devices to Query message.

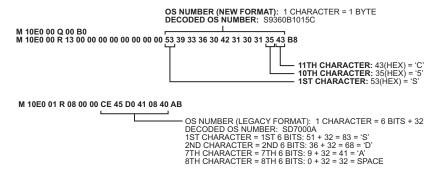


Fig. 4. Node Identification 1 (10E0).

Optionally, devices can send Node Identification 2 and 3 reports right after their Node Identification 1 report, containing additional identification information.

Node Identification 2 (10E1)

Fig. 5 shows an example of report following Node Identification 1 report.



Fig. 5. Node Identification 2 (10E1).

Device Status (3E70)

Message is used to identify existence of control device in a system and its current state. Fig. 6 and 7 show responses to a Device Status query.

```
M 3E70 00 Q 00 0E

| M 3E70 00 Q 00 0E
| O(HEX) - APPLIES TO ALL DEVICES THAT LISTEN TO THE MESSAGE CLASS | 10(HEX) - APPLIES TO ALL DEVICES THAT LISTEN TO THE MESSAGE CLASS | 10(HEX) - APPLIES TO ALL DEVICES THAT LISTEN TO THE MESSAGE CLASS | 10(HEX) - GAS HEAT | 42(HEX) - WATER HEATER

M 3E70 F0 R 08 00 04 01 00 00 00 00 00 00 83

| FLAME CURRENT SEQUENCE STATE OF THE DEVICE: 01(HEX) = IDLE | CURRENT SEQUENCE STATE OF THE DEVICE: 01(HEX) = IDLE | CURRENT SEQUENCE STATE OF THE DEVICE: 01(HEX) = IDLE | CURRENT SEQUENCE STATE OF THE DEVICE: 01(HEX) = IDLE | CURRENT SEQUENCE STATE OF THE DEVICE: 01(HEX) = IDLE | CURRENT SEQUENCE STATE OF THE DEVICE: 01(HEX) = IDLE | CURRENT SEQUENCE STATE OF THE DEVICE: 01(HEX) = IDLE | CURRENT SEQUENCE STATE OF THE DEVICE SINTEN SEQUENCE SWITCH TO CLOSE | 00(HEX) = 0 = IPN GAVILLO SEQUENCE SWITCH TO CLOSE | 00(HEX) = 0 = IPN GAVILLO SEQUENCE SWITCH TO CLOSE | 00(HEX) = 0 = IPN GAVILLO SEQUENCE SWITCH TO CLOSE | 00(HEX) = 0 = IPN GAVILLO SEQUENCE SWITCH TO CLOSE | 00(HEX) = 0 = IPN GAVILLO SEQUENCE SWITCH TO SURFACE IGNITER | 00(HEX) = 0 = IPN GAVILLO SEQUENCE SWITCH TO SURFACE IGNITER | 00(HEX) = 0 = IPN GAVILLO SEQUENCE SWITCH TO SURFACE IGNITER | 00(HEX) = 10 = IPN GAVILLO SEQUENCE SWITCH TO SURFACE IGNITER | 00(HEX) = 10 = IPN GAVILLO SEQUENCE SWITCH TO SURFACE SWITCH TO SURFACE SWITCH TO SURFACE IGNITER | 00(HEX) = 10 = IPN GAVILLO SEQUENCE SWITCH TO SURFACE SWITCH
```

Fig. 6. Device Status (3E70).

```
M 3E70 F0 R 08 C8 04 08 00 00 00 1B 30 59

FLAME CURRENT [nA]: 1B30(HEX) = 6960nA

CURRENT SEQUENCE STATE OF THE DEVICE: 08(HEX) = RUNNING

CURRENT INSTANTANEOUS STATE OF THE DEVICE: C8(HEX) = FULL ON
```

Fig. 7. Device Status (3E70).

DHW Cylinder Temperature (1260)

Message is used to retrieve the water temperature.

Fig. 8 shows a response to a DHW Cylinder Temperature query.

```
M 1260 F0 Q 00 C2

INSTANCE: F0(HEX) = WATER HEATER

M 1260 F0 R 06 13 06 12 5C 15 B8 72

TEMPERATURE AT THE BOTTOM OF THE TANK [0.01°C]: 15B8(HEX) = 55.60°C (132.08°F)

TEMPERATURE AT THE TOP OF THE TANK [0.01°C]: 125C(HEX) = 47.00°C (116.60°F)

TEMPERATURE [0.01°C]: 1306(HEX) = 48.70°C (119.66°F)
```

Fig. 8. DHW Cylinder Temperature (1260).

DHW Cylinder Setpoint (10A0)



Fig. 9. DHW Cylinder Setpoint (10A0).

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Change of the temperature setpoint is shown in Fig. 10.

```
M 10A0 F0 C 02 19 64 FF
DHW SETPOINT [0.01°C]: 1964(HEX) = 65.00°C (149.00°F)
M 10A0 F0 R 05 19 64 00 01 18 21
```

Fig. 10. DHW Temperature Setpoint (10A0).



Changing of the temperature setpoint may not work when other interacting devices are connected to EnviraCOM™ bus. Can cause severe injury, death or property damage.

DHW Setpoint Range (10A1)

Message is used to retrieve or change the range of values allowed for temperature setpoint and setpoint differential.

Fig. 11 shows a response to a DHW Setpoint Range query.

```
M 10A1 F0 Q 00 01
M 10A1 F0 R 08 1A B8 05 00 05 6E 02 30 56
MINIMUM SETPOINT DIFFERENTIAL [0.01°C]: 0230(HEX) = 5.60°C (10.08°F)
7FFF(HEX) = NOT AVAILABLE
MAXIMUM SETPOINT [0.01°C]: 056E(HEX) = 13.90°C (25.02°F)
7FFF(HEX) = NOT AVAILABLE
MINIMUM SETPOINT [0.01°C]: 0500(HEX) = 12.80°C (55.04°F)
7FFF(HEX) = NOT AVAILABLE
MAXIMUM SETPOINT [0.01°C]: 1AB8(HEX) = 68.40°C (155.12°F)
7FFF(HEX) = NOT AVAILABLE
```

Fig. 11. DHW Setpoint Range (10A1).

DHW Demand (30D0)

Message is used to retrieve a demand for the domestic hot water equipment.

Fig. 12 shows responses to a DHW Demand query message.

Fig. 12. DHW Demand (30D0)

Boiler Temperature (3200)

Message is used to retrieve the temperature of water supplied by the boiler.

Fig. 13 shows a response to a Boiler Temperature query.

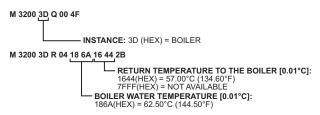


Fig. 13. Boiler Temperature (3200)

Desired Boiler Setpoint (22D9)

Message is used to retrieve a desired setpoint of the boiler.

Fig. 14 shows a response to a Desired Boiler Setpoint query.

```
M 22D9 3D Q 00 86
M 22D9 3D R 02 19 64 B9
DESIRED BOILER SETPOINT [0.01°C]:
1964(HEX) = 65.00°C (149.00°F)
```

Fig. 14. Desired Boiler Setpoint (22D9)

Central Heat Setpoint (22DB)

Message is used to retrieve or change the boiler setpoint for the central heating function of a boiler.

Fig. 15 shows a response to a Central Heat Setpoint query.

```
M 22DB 3D Q 00 84
M 22DB 3D R 04 13 1A 02 30 FB
SETPOINT DIFFERENTIAL [0.01°C]:
0230(HEX) = 5.60°C (10.08°F)
BOILER SETPOINT [0.01°C]:
131A(HEX) = 48.90°C (120.02°F)
```

Fig. 15. Central Heat Setpoint (22DB)

Fig. 16 shows a response to a Central Heat Setpoint change request.

```
M 22DB 3D C 02 19 64 7B

BOILER SETPOINT [0.01°C]:
1964(HEX) = 65.00°C (149.00°F)

M 22DB 3D R 04 19 64 02 30 8F
```

Fig. 16. Central Heat Setpoint (22DB)



Changing of the boiler setpoint may not work when other interacting devices are connected to EnviraCOM™ bus.

Supply High Limit (1081)

Message is used to retrieve the supply high limit temperature setpoint, differential and the state of the limit.

Fig. 17 shows a response to a Supply High Limit guery.

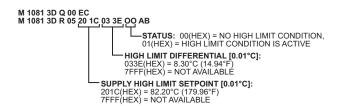


Fig. 17. Supply High Limit (1081)

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Heat/Cool Demand (3110)

Message is used to retrieve a demand for the emergency heat, heating equipment.

Fig. 18 shows responses to a Heat/Cool Demand query.

```
M 3110 00 Q 00 61

EQUIPMENT (ONE STAGE) FORCED OFF:

M 3110 00 R 04 01 FC 10 10 D8

SYSTEM STAGE1 – SUM OF FOLLOWING ITEMS:
EQUIPMENT TYPE:
10(HEX) = NATURAL GAS OR OIL HEATING – IF MODE = 10(HEX) OR 30(HEX)
STAGE1 ON/OFF: 00(HEX) = OFF, 01(HEX) = ON

QUALIFICATION – SUM OF FOLLOWING ITEMS:
MODE:
10(HEX) = HEATING, 30(HEX) = EMERGENCY HEATING
ON/OFF:
00(HEX) = ALL OF THE STAGES ARE OFF, 01(HEX) = AT LEAST ONE STAGE IS ON

DEMAND:
FC(HEX) = 252 = FORCE – CHECK STAGE1 ON/OFF FIELD

EQUIPMENT (ONE STAGE) DEMANDED TO RUN AT 100%:

M 3110 00 R 04 01 C8 11 11 EC

DEMAND:
C8(HEX) = 200 = 100%

EQUIPMENT (ONE STAGE) DEMANDED TO RUN AT 0%:

M 3110 00 R 04 01 00 10 10 24

DEMAND:
00(HEX) = 0 = 0%
```

Fig. 18. Heat/Cool Demand (3110)

Boiler Heat/Cool Demand (3114)

Message is used to retrieve a demand for the boiler.

Fig. 19 shows responses to a Boiler Heat/Cool Demand guery.

```
M 3114 3D Q 00 58
        LINSTANCE: 3D(HEX) = BOILER
BOILER (ONE STAGE) FORCED OFF:
M 3114 3D R 04 01 FC 10 10 E1
                                -SYSTEM STAGE1 – SUM OF FOLLOWING ITEMS:
EQUIPMENT TYPE:
10(HEX) = NATURAL GAS OR OIL HEATING – IF MODE = 10(HEX) OR 30(HEX)
STAGE1 ON/OFF: 00(HEX) = OFF, 01(HEX) = ON
                              QUALIFICATION - SUM OF FOLLOWING ITEMS:
                              MODE:
10(HEX) = HEATING, 30(HEX) = EMERGENCY HEATING
ON/OFF:
                             00(HEX) = ALL OF THE STAGES ARE OFF,
01(HEX) = AT LEAST ONE STAGE IS ON
                          • DEMAND:
FC(HEX) = 252 = FORCE – CHECK STAGE1 ON/OFF FIELD
BOILER (ONE STAGE) DEMANDED TO RUN AT 100%:
M 3114 3D R 04 01 C8 11 11 D5
                          DEMAND:
                          C8(HEX) = 200 = 100%
BOILER (ONE STAGE) DEMANDED TO RUN AT 0%:
M 3114 3D R 04 01 00 10 10 1D
                         DEMAND: 00(HEX) = 0 = 0%
```

Fig. 19. Boiler Heat/Cool Demand (3114)

Displayed Temperature (12C0)

Message is used to retrieve a displayed ambient temperature.

Fig. 20 shows responses to a Displayed Temperature query.

```
M 12C0 00 Q 00 92 TEMPERATURE DISPLAYED IN DEGREES FAHRENHEIT: M 12C0 00 R 03 4D 00 FF 63 UNITS: 00(HEX) = °F, 01(HEX) = 0.5°C DISPLAYED AMBIENT TEMPERATURE [°F]: 4D(HEX) = 77°F (25°C) TEMPERATURE DISPLAYED IN DEGREES CELSIUS: M 12C0 00 R 03 31 01 FF 1E DISPLAYED AMBIENT TEMPERATURE [0.5°C]: 31(HEX) = 24.5°C (76.1°F)
```

Fig. 20. Displayed Temperature (12C0)

Outdoor Temperature (1290)

Message is used to retrieve an outdoor temperature.

Fig. 21 shows a response to an Outdoor Temperature query.

```
M 1290 00 Q 00 C2

M 1290 00 R 02 FB A0 DB

OUTDOOR TEMPERATURE [0.01°C]:
FBA0(HEX) = -11.20°C (11.84°F)
7FFF(HEX) = NOT AVAILABLE
```

Fig. 21. Outdoor Temperature (1290)

Outdoor Humidity (1280)

Message is used to retrieve an outdoor humidity.

Fig. 22 shows a response to an Outdoor Humidity query.

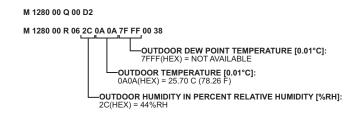


Fig. 22. Outdoor Humidity (1280)

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Alarm (3120)

Message is used to retrieve states of alarms.

Fig. 23 shows responses to an Alarm query.

```
M 3120 00 Q 00 51

NO ALARM REPORTED:

M 3120 00 R 04 70 00 00 00 65

ALARM TYPE:
0000(HEX) = NO ALARM – THE DEVICE HAS NO ALARMS

MATURED ALARM REPORTED:

M 3120 00 R 08 F8 00 33 F0 33 00 00 00 1A

M 3120 00 R 08 F8 00 38 F0 33 00 00 00 1A

M 3120 00 R 08 F8 00 38 F0 33 00 00 00 1A

M 3120 00 R 08 F8 00 38 F0 33 00 00 00 1A

M 3120 00 R 08 F8 00 38 F0 33 00 00 00 1A

M 000(HEX) = 0 NO ALARM – THE DEVICE HAS NO ALARMS
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001(HEX) = 0 + LARM EXPERIENCE HAS NO ALARMS SORE DURING POSTPURGE
001(HEX) = 0 + LARM EXPERIENCE HAS NO ALARMS SORE DURING POSTPURGE
001(HEX) = 0 + LARM EXPERIENCE HAS NO ALARMS SORE DURING POSTPURGE
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003(HEX) = 0 + LARM EXPERIENCE HAS NO ALARMS SORE DURING POSTPURGE
003(HEX) = 0 + LARM EXPERIENCE HAS NO ALARMS SORE HAS NO H
```

Fig. 23. Alarm (3120)

Automation and Control Solutions

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