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EnviraCOM™ Alarm Module

APPLICATION

The EnviraCOM™ enabled W8735S3000 Alarm Module, when connected to the R7284 Oil Primary, L7224/L7248/L7103 Aquastat ®, and/or other EnviraCOM enabled, alarm generating controls will close dry contacts to indicate a critical alarm event.

FEATURES

- **Works with any alarm generating EnviraCOM enabled control**
- **Local LED alarm present indication**
- **Local LED communication active indication**
- **Screw terminals**
- **Simple low-voltage, 5-wire installation (3 EnviraCOM, 2 relay dry contacts)**
- **EnviraCOM™ Enabled**

SPECIFICATIONS

Electrical Ratings: Voltage: 24 Vac, 60 Hz supplied through the EnviraCOM bus.

Contact Rating: 1A at 24 VAC

Environmental Ratings:

Temperature: -30° F to +150° F (-34° C to +66° C).

Humidity: 0 to 95% relative humidity, non-condensing.

Relay Specs:
Normally open (N.O.), dry alarm contacts close upon the receipt of a critical EnviraCOM alarm

Compatibility

The W8735S3000 Alarm Module is compatible with the following EnviraCOM enabled controls:
- R7284/R7184 Oil Primary
- L7224/L7248/L7103 Aquastat®
- S9200U Universal IFC
- WV4460 Power Vent Water Heater Control
- S9360/S9361 Integrated water heater and boiler controls
- W8735G EnviraCOM Gateway
- W8735D EnviraCOM Telephone Access Module
- R7910 SOLA Control
- W8735S1000 Outdoor Reset Module
- W8735S1008 Domestic Hot Water Module
- W8735S1016 Indoor Temperature Module
- W8735S2000 Flood Module Kit
- W8735S2008 Sump Pump Module Kit

INSTALLATION

When Installing this Product...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. The installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

⚠ **CAUTION**

Can cause electrical shock and equipment damage. Disconnect power supply before connecting wiring.

5. The EnviraCOM Alarm Module can be wall mounted in any orientation desired or dictated by the surroundings.
6. The holes are sized for the #6 sheet metal screws (included).
7. Precise leveling of the product is not required.

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WIRING

⚠ CAUTION

Electrical Interference (Noise) Hazard.
Can cause erratic system operation.
Keep wiring at least one foot away from large inductive loads such as motors, line starters, lighting ballasts and large power distribution panels. Use shielded cable to reduce interference when rerouting is not possible.

1. Mount the module with the supplied hardware.
2. Wire the 1,2, and 3 terminals on the EnviraCOM Alarm Module to the 1,2, and 3 terminals on the EnviraCOM™ enabled Oil Primary, Aquastat®, or any aforementioned EnviraCOM enabled controls, or anywhere on the EnviraCOM™ bus where access is available and convenient. See Fig. 1.
3. Connect the 2 wires from the alarming circuit (See Fig. 1) into the Normally Open (N.O.) terminals on the EnviraCOM Alarm Module.
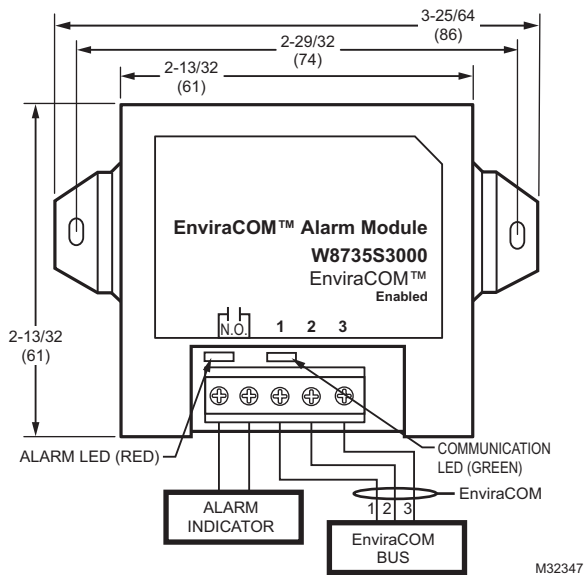

Fig. 1. W8735S3000 EnviraCOM Alarm Module wiring diagram.

OPERATION

General

The EnviraCOM Alarm Module is a device which, when connected to a communicating control with the alarm feature, will close its normally open contacts to indicate the presence of a critical alarm. Check Installation Instructions for the controls to be connected to the EnviraCOM bus (along with the EnviraCOM Alarm Module) to insure their alarms will cause the W8735S3000 to react with an alarm contact closure.

IMPORTANT

> *The W8735S3000 Alarm Module will react only to critical EnviraCOM alarms. Each EnviraCOM enabled control may generate its own list of alarms (depending on the control's function) and each having different criticalities. Generally critical alarms are assigned to those events which will result in a burner lockout and a no-heat situation, and may require a manual reset.*

The W8735S3000 is equipped with two indicating LEDs. See Table 1 for LED specification.

Table 1. W8735S3000 LED Specifications.

LED	Description/Function	Indication
Green	Communication	This LED will sporadically come on as messages are being transmitted over the bus. LED OFF indicates no bus traffic
Red	Alarm state	OFF: No active alarm ON: Critical alarm present

SYSTEM CHECKOUT

Once the EnviraCOM Alarm module is installed and connected to both the EnviraCOM bus and the alarm circuit and power restored, verify the green COM LED flickers at approximately one minute intervals if not more frequently.

Generate a critical alarm from the R7284 Oil Primary (typically by generating an ignition failure) or any other EnviraCOM enabled device which can generate a critical alarm, and verify the red ALARM LED turns on. The alarm circuit should react to the Alarm Module contacts closing. Allow up to several minutes for the alarm contacts to return to their normal state after the alarm is cleared.

Use a multimeter to check continuity between the ALARM terminals when the red ALARM LED is on and the alarm circuit does not provide a visual/audible indication. The ALARM LED should remain ON as long as the critical alarm condition exists.

TROUBLESHOOTING

Trouble	Resolution
No communication with the Alarm Module.	Verify all EnviraCOM wiring (terminals 1, 2, 3).
Alarm Module not reacting to alarms.	Verify the green LED is intermittently blinking. Verify the green LED is not ON constantly. Check all wiring. Check alarm contact wiring Verify there is an active critical alarm. Verify red LED in ON.
Alarm Module reacting sporadically.	Verify there are no loose wires. Verify the EnviraCOM enabled control is generating critical alarms. Non-critical alarms will not cause the contacts on the Alarm Module to close. Check LED for critical alarm indication.
Red LED indicates alarm but the contacts don't close.	Replace the Alarm Module

ENVIRACOM™ ALARM MODULE