



ISO 9001: 2000
Certified

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Remote/Alarm Module



Description

The Detcon Remote Sensor/Alarm Relay Module (known as the Remote/Alarm Module or RAM) is sold separately as an accessory for Model 700 and 100 Series gas sensors. It is a universal design and can be used with any of the Model 700 or 100 gas sensors. The RAM is provided in an explosion-proof junction box constructed of either epoxy-painted aluminum or 316 stainless steel, and includes a glass-viewing window.

The RAM has two main functions. The first function is used to set gas alarm levels and to configure the three local relay contacts. The second function is used to operate the gas sensor remotely. The remote sensor function is typically used when the sensor must be mounted in a position where it cannot be viewed or accessed readily. Both functions can be used at the same time.

The RAM provides the 4-20 mA output directly from the gas sensor (Model 700 only). The RAM acts as a Modbus™ master to the gas sensor in order to display the reading and execute the remote control functions. It acts as a Modbus™ slave to any master control device and simply repeats the Modbus™ output from the gas sensor it is connected to.

Features

- ▶ Mimics Gas Sensor Display
- ▶ Remote calibration of Gas Sensor
- ▶ Remote setting capability
- ▶ Complete Diagnostic Information
- ▶ RS-485 Connection to Sensor Module
- ▶ 2 Alarm Relays & 1 Fault Relay

Order Guide Specify junction box options (below)

- | ▶ Part Number | Description |
|------------------|---|
| ▶ 975-70000A-00A | Remote/Alarm Module in Aluminum Enclosure |
| ▶ 975-70000A-00S | Remote/Alarm Module in 316 SS Enclosure |

Specifications

Inputs

Model 100 or 700 Gas Sensor

Outputs

4-20mA signal (Model 700 only)
RS-485 Modbus™
Relay Contacts - Three Form C
Rated 5A @ 30 VDC/250 VAC

Input Voltage

11-30VDC

Power Consumption*

< 0.5 Watts at 24VDC (Normal)
< 1.5 watt at 24VDC (Maximum)

Operating Temperature

-40°C to 75°C

Electrical Classification

Class 1, Division 1 Groups ABCD
Class 1, Zone 1, Group IIC

Enclosure Classification

Nema 7 and Nema 4X

* Excluding Gas Sensor

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