



**ISO 9001: 2000**  
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# Detcon Model 700 Series

## HART-RAM Module



### Description

Detcon Model 700 HART-RAM Module is designed for use with any of Detcon Model 700 series gas detection sensors. The module allows communication and diagnostic interface to an attached sensor via HART protocol over an isolated 4-20 mA signal loop. It also includes two alarm level relays, a fault condition relay, and an alpha/numeric display that simplifies operator interface during routine operation and maintenance activity. The HART-RAM Module is supplied in an explosion-proof junction box with glass lens. Optional epoxy-painted aluminum or electro-polished 316 stainless steel enclosures are available.

This device uses HART Version 7.0 and Detcon is a member of the HART Communication Foundation.

### Features

- ▶ Uses HART Protocol Version 7.0
- ▶ Isolated 4-20 mA Output
- ▶ Mimics Gas Sensor Display
- ▶ Remote Calibration of Gas Sensor
- ▶ Remote Setting Capability
- ▶ Complete Diagnostic Information
- ▶ 2 Alarm Relays & 1 Fault Relay

### Order Guide Specify junction box options (below)

- | ▶ Part Number    | Description                           |
|------------------|---------------------------------------|
| ▶ 975-70000H-00A | HART-RAM Module in Aluminum Enclosure |
| ▶ 975-70000H-00S | HART-RAM Module in 316 SS Enclosure   |

### Specifications

#### Inputs

Any Model 700 Gas Sensor

#### Outputs

Isolated 4-20mA signal  
HART Version 7.0  
Relay Contacts - Three Form C  
Rated 5A @ 30 VDC/250 VAC  
RS-485 Modbus RTU

#### Input Voltage

11-30VDC

#### Power Consumption\*

<0.5 Watts at 24VDC (Normal)  
<1.5 Watts 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 700 Gas Sensor