

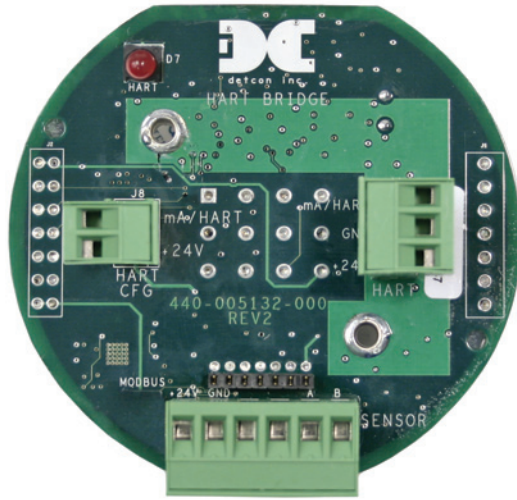


Detcon HRT MODULE

FOR MODEL 700 SERIES SENSORS

ISO 9001: 2000
Certified

888-367-4286
713-559-9200
fax 281-292-2860
www.detcon.com
sales@detcon.com



FEATURES

- ▷ Uses HART Protocol Version 7.0
- ▷ Isolated 4-20 mA Output
- ▷ Remote Calibration of Gas Sensor
- ▷ Remote Setting Capability
- ▷ Complete Diagnostic Information

DESCRIPTION

Detcon Model 700 HRT Module is a bi-directional digital communication interface that provides data communication between Detcon Model 700 series sensors and HART-enabled devices. The HART (Highway Addressable Remote Transducer) Protocol is a standard for sending and receiving digital information across analog wires between smart devices and a control host or monitoring system. A host can be any software application from a technician's hand-held device or laptop to a plant's process control, asset management, safety or other system using any control platform.

The HART Protocol makes use of the Bell 202 Frequency Shift Keying (FSK) Standard to superimpose digital communication signals on the 4-20mA signal utilized by the 700 series sensors. This enables two-way communication and makes it possible for additional information to be transferred to and from the sensor.

The HRT Module communicates with the 700 series sensors via its Modbus™ interface and transfers that information to the HART Protocol along with the 4-20mA Signal. This provides the ability for a HART Host System to communicate with the 700 series sensor. This communication includes the ability for the Host to perform sensor diagnostics, troubleshoot the sensor, read additional information from the sensor, and determine the sensor's health and status. Optional epoxy-painted aluminum or electro-polished 316 stainless steel enclosures are available.

SPECIFICATIONS

- Power Input**
9 to 30VDC (Nominal 24VDC)
- Power Consumption**
100mA Maximum (Including Sensor)
3W Maximum (Including Sensor)
- Operating Temperature**
-40°C to +85°C
Humidity: 10 to 95% Non-condensing
- Outputs**
Analog 4-20mA DC
HART Communication Protocol
- HART Version**
7.0
- Warranty**
One year
Five year fixed fee service policy

ORDER GUIDE

Part Number	Description
500-005132-100	Model 700 HRT Module
975-70005H-00A	HRT Module in Standard aluminum junction box
975-70005H-00S	HRT Module in Standard 316SS junction box



R061510

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