

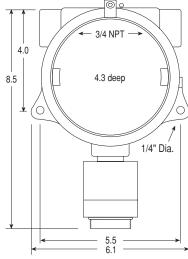
ISO 9001: 2008 Certífíed

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Specifications

Sensor Type Non-dispersive Infrared Optical (NDIR) Measurement Range 0 - 0.3%/0 - 1%/0 - 3%/0 - 5% by volume Accuracy/Repeatability ±5% full scale **Response/Clearing Time** T50 <15 seconds T90 <40 seconds Zero Drift <0.05% per year **Operating Temperature Range** -40°F to +167°F; -40°C to +75°C **Operating Humidity Range** 0-99% RH non-condensing Outputs Linear 4-20 mA DC RS-485 Modbus^T 3 Relays (alarm 1, alarm 2, & fault) Contacts rated 5 amps Input Voltage 22.5-28 VDC **Power Consumption** <3 watts @ 24 VDC **Electrical Classification** Explosion proof Class I, Division 1, Groups B, C, D Ingress Protection NEMA 4X, IP66 Safety Approvals CSÁ/NRTL (US OSHA Certified) Sensor Life/Warranty Sensor: 5 year warranty pro-rated Transmitter: 2 year warranty

DIMENSIONS



MODEL IR-640 Carbon Dioxide Sensor

Non-dispersive Infrared Optical

MicroSafe[™] Intelligent Sensor

DESCRIPTION

Detcon Model IR-640 sensors are non-intrusive "Smart" sensors designed to detect and monitor Carbon Dioxide. Available ranges of detection are 0-0.3%, 0-1%, 0-3%, and 0-5% by volume. The sensor assembly consists of a miniature infrared optical sensor in a stainless steel housing that includes a splashguard with integral cal port, a plug-in control transmitter circuit, a base connector board and an explosion proof enclosure.



FEATURES

- ▷ CSA-NRTL Approved: Class I, Division 1, Groups B, C, & D
- ▷ Compatible with PLCs, SCADA, DCS, via 4-20 mA, and/or RS-485, and/or alarm relays
- ▷ Sensor status and parameters accessible via RS-485 (Modbus[™])
- ▷ Menu programmable relays standard (two alarms plus fault)
- ▷ Simple menu driven calibration takes less than 3 minutes
- ▷ Backlit LCD and LED indicators for FAULT and CAL status
- ▷ Unique miniature field-replaceable optical sensor
- ▷ Plug-in field-replaceable transmitter
- ▷ Low power consumption
- ▷ 5-year expected sensor life

Order Guide

PN 966-404520-___ PN 966-40542B-

Model IR-640 in Aluminum Junction Box Model IR-640-316SS in Stainless Steel Junction Box

Complete the part number by choosing range 005 = 5% 003 = 3%

001 = 1% 0X3 = 0.3%

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