



MODEL PI-600

UNIVERSAL VOC GAS SENSOR

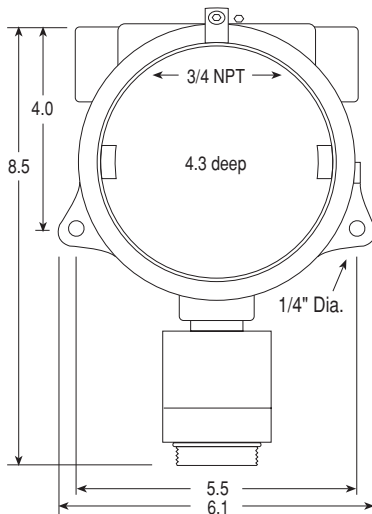
ISO 9001:2008
Certified

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SPECIFICATIONS

- Sensor Type**
Photo Ionization Detector (PID)
- Gases Detected**
All gases with ionization potential <10.6 eV
- Measurement Range**
Gas Dependent, ranges as low as 0-10 ppm or as high as 0-5,000ppm (consult Detcon)
- Accuracy/Repeatability**
±10% of reading (greater of)
±2.5% of range
- Response/Clearing Time**
T50 <10 seconds; T90 <30 seconds
- Span Drift**
<10% of reading per 6 months
- Operating Temperature Range**
-20°C to +50°C
- Operating Humidity Range**
0-100% RH non-condensing
- Pressure Range**
Ambient ±10%
- Outputs**
Linear 4-20 mA DC
RS-485 Modbus™
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
- Safety Approvals**
CSA/NRTL (Pending)
- Sensor Life/Warranty**
Sensor: 1 year
Transmitter: 2 year warranty

DIMENSIONS



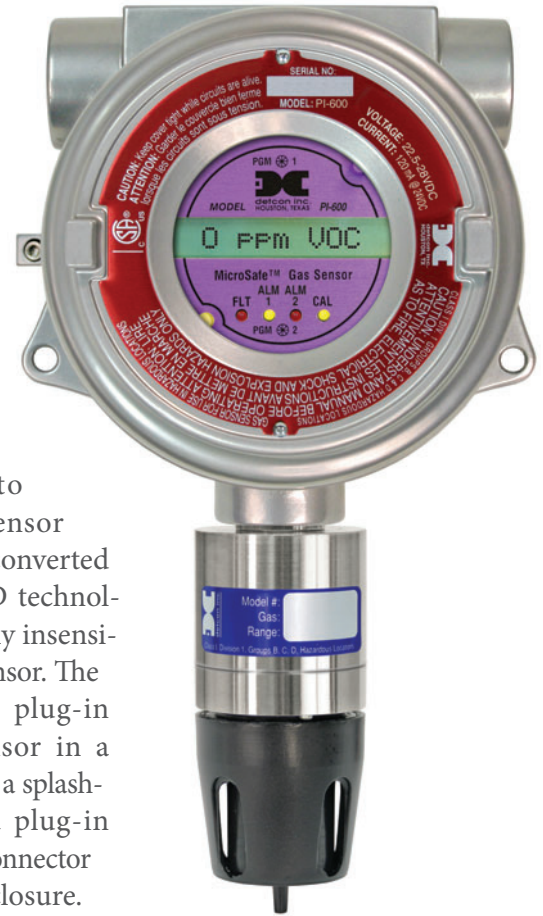
Splashguard 2"H x 2"Dia.

Photo Ionization
Detector (PID)

MicroSafe™
Intelligent Sensor

DESCRIPTION

Detcon Model PI-600 sensors are non-intrusive "Smart" sensors that use photo-ionization detector technology to monitor VOC gases over ranges from 0-10ppm to 0-5,000ppm. In the PI-600 sensor design, Detcon has successfully converted the sensitive laboratory style PID technology into a rugged, environmentally insensitive, and long-life industrial gas sensor. The sensor assembly consists of a plug-in replaceable miniature PID sensor in a stainless steel housing that includes a splash-guard with integral cal port, a plug-in control transmitter circuit, a base connector board and an explosion proof enclosure.



FEATURES

- ▶ Unique miniature field-replaceable PID sensor
- ▶ Non-selective measurement provides reading of numerous VOC compounds
- ▶ Ranges as low as 0-10ppm
- ▶ Heated sensor compartment for use in condensing environments
- ▶ Self-diagnostic for PID sensor functional status
- ▶ Simple menu driven calibration - takes less than 3 minutes
- ▶ Backlit LCD and LED indicators for FAULT and CAL status
- ▶ Menu programmable relays standard (two alarms plus fault)
- ▶ Compatible with PLCs, SCADA, and DCS via 4-20 mA, and/or RS-485, and/or alarm relays
- ▶ Sensor status and parameters accessible via RS-485 (Modbus™)
- ▶ Electrical Classification: Class I, Division 1, Groups B, C, & D

ORDER GUIDE

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|-------------------|--|
| PN 966-P14520-010 | Model PI-600 10 ppm in Aluminum Junction Box |
| PN 966-P1452B-010 | Model PI-600-316SS in 10 ppm Stainless Steel Junction Box |
| PN 966-P24520-01K | Model PI-601 1,000 ppm in Aluminum Junction Box |
| PN 966-P2452B-01K | Model PI-601-316SS in 1,000 ppm Stainless Steel Junction Box |

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