



# OI-675-X-0 Sensor Assembly

## 2-Wire Loop Powered Electrochemical Toxic Gas Detector

The Otis Instruments OI-675 Series 2-Wire Electrochemical Toxic Gas Detector is versatile in its ability to detect a variety of toxic gases. The OI-675 offers non-intrusive calibration, allowing the device to remain Class I, Division 1, Groups C and D certified while adjustments are made in the field. An extended life-expectancy paired with the ability to withstand extreme climatic conditions and harsh environments makes the OI-675 a dependable tool for gas detection.



### Product Features

- Electrochemical Sensor
- Wired Communication
- 2-Wire Loop Powered
- 3 Digit, 7 Segment Display Screen
- 3 Push-Button Interface (ADD, MENU, SUB)
  - 3 Corresponding Magnetic Non-Intrusive Switches
- 4-20 mA Analog Output
- -40°C to +55°C T<sub>amb</sub> Temperature Range
- Class I, Division 1, Groups C & D Component Certified
- 1-Year Limited Hardware Warranty
- Sensor Element Warranty Subject to Otis Verification

| Gas Type | Range      | T <sub>90</sub> | Warranty  |
|----------|------------|-----------------|-----------|
| CO       | 0-1000 ppm | < 115 sec.      | 24 months |
| H2S      | 0-100ppm   | < 30 sec.       | 24 months |
| O2       | 0-25% vol. | —               | 24 months |
| SO2      | 0-20 ppm   | < 205 sec.      | 24 months |

**Note:** The H2S sensor has variable ranges of 0-10 ppm, 0-25 ppm, 0-50 ppm, and 0-100 ppm that can be set by the user.

### 2-Wire Loop Powered Electrochemical Toxic Gas Detector

| <b>OI-675 Product Specifications</b>            |  |
|---|--|
| Sensor Type                                     | Electrochemical Sensor   |
| Power Type                                      | Loop-Powered (2-Wire)  |
| Operating Voltage                               | 12V to 24V DC  |
| Current Draw                                    | 35 mA Maximum  |
| Display Screen                                  | 3 Digit, 7 Segment Display Screen  |
| Interface                                       | 3 Push-Buttons (MENU, ADD, and SUB)<br>3 Magnetic Non-Intrusive Switches for Calibration |
| T <sub>amb</sub> Temperature Range              | -40°C to 55°C<br>(Varies w/ Sensor Type)   |
| Wired (Analog) Output                           | 4-20 mA (2-Wire)   |
| Enclosure Materials                             | Aluminum Device Enclosure<br>303 Stainless-Steel Sensor Housing                          |
| Product Dimensions                              | 5.5 in. L x 6.25 in. W x 17.25 in. H<br>(Max. Dimensions w/ Attachments)                 |
| Total Weight                                    | 5.75 lbs.  |
| Product Mounting                                | Wall Mount (Included)  |
| Approvals                                       | CSA Component Certified Explosion-Proof  |
| Hazardous Location Certifications and Approvals | Class I, Division 1, Groups C and D<br>T <sub>amb</sub> -40°C to +55°C                   |
| Hardware Warranty                               | 1-Year, Limited  |
| Sensor Element Warranty                         | Varies with Sensor Type and Subject to Otis Verification of Element Status               |
| Part Number Formula                             | OI-675-[Gas]-[Enclosure]<br>OI-675-X-O   |