

# GEN<sup>2</sup>

# OTIS

## OI-675 Sensor Assembly

### 2-Wire Electrochemical Toxic Gas Detector

The Otis Instruments OI-675 Series Toxic Gas Detector is a versatile assembly that uses an electrochemical sensor to detect a variety of gases. 2-Wire Loop-Powered to withstand extreme climatic conditions and harsh environments. Magnetic switches allow for non-intrusive calibration while in the field as well as full system settings and diagnostics.

| Type | Range      | T <sub>90</sub> |
|------|------------|-----------------|
| CL2* | 0-10 ppm   | < 65 sec.       |
| CO   | 0-1000 ppm | < 115 sec.      |
| H2S  | 0-100ppm   | < 30 sec.       |
| HF*  | 0-10 ppm   | < 90 sec.       |
| NH3* | 0-100 ppm  | < 90 sec.       |
| O2   | 0-25% vol. | —               |
| SO2  | 0-20 ppm   | < 205 sec.      |

(\*) CL2, HF, and NH3 sensors cannot have a flame-arrestor.

**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.



### Product Features

- Electrochemical Sensor
- Wired Communication
- Loop-Powered (2-Wire)
- 3 Character, 7 Segment Display Screen
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- Operating Temperature Range of -40°C to +55°C
- Aluminum Device Enclosure
- 4-20 mA (2-Wire) Analog Output
- 303 Stainless-Steel Sensor Housing
- QPS Explosion Proof/Flame-Proof Certification for Select Gases
- 1-Year Limited Hardware Warranty



301 S. Texas Avenue  
Bryan, Texas 77803  
P: 979-776-7700

[sales@otisinstruments.com](mailto:sales@otisinstruments.com)

### OI-675 Product Specifications

| Product Specifications                         |   |
|--|---|
| Sensor Type                                    | Electrochemical   |
| Power Type                                     | Loop-Powered (2-Wire)   |
| Operating Voltage                              | 12V to 24V DC   |
| Current Draw                                   | 35 mA Maximum   |
| Display Screen                                 | 3 Character, 7 Segment Display Screen   |
| Product Compatibility                          | GEN II WireFree Transmitter (OI-5900)<br>GEN II Wired Monitors (OI-7010, OI-7032, OI-7440, OI-7480)             |
| 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 (-40°F to +131°F) (Varies with Sensor Type)  |
| Wired (Analog) Output                          | 4-20 mA (2-Wire)  |
| Product Dimensions                             | 5.42 in. L x 6.03 in. W x 17.03 in. H (Max. Dimensions with Attachments)  |
| Enclosure Materials                            | Aluminum Device Enclosure<br>303 Stainless-Steel Sensor Housing   |
| Total Weight                                   | 5.75 lbs.   |
| Product Mounting                               | Wall Mount (Included)   |
| Approvals                                      | QPS Component Certified Explosion-Proof<br>(CO, H <sub>2</sub> S, O <sub>2</sub> and SO <sub>2</sub> Gas Types) |
| Hazardous Location Certification and Approvals | Class I, Division 1, Groups C & D   |
| Hardware Warranty                              | 1-Year Limited  |
| Sensor Element Warranty                        | 1-Year (Varies with Gas Type)   |
| Part Number Formula                            | OI-675-[Gas]-[Enclosure]<br>OI-675-X-O  |