

GEN²

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 ₉₀
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 +50°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

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) GEN II Wired Monitors (OI-7010, OI-7032, OI-7440, OI-7480)
Interface	3 Push-Buttons (MENU, ADD and SUB) 3 Magnetic, Non-Intrusive Switches for Calibration
T _{amb} Temperature Range	-40°C to +50°C (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 303 Stainless-Steel Sensor Housing
Total Weight	5.75 lbs.
Product Mounting	Wall Mount (Included)
Approvals	QPS Component Certified Explosion-Proof (CO, H ₂ S, O ₂ and SO ₂ 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] OI-675-X-O