



THE CUBE

for Wastewater Applications

Ambient Air Gas Detector



The Otis Instruments OI-6000 Series Ambient Air Toxic Gas Detector provides ease of use and implementation to comply with varying demands within the wastewater management industry.

The OI-6000 is a versatile assembly that uses an electrochemical, infrared or PID sensor element to detect a variety of gases. Wired power (12 to 35 VDC) with 4-20 mA analog and RS-485 Modbus outputs. Magnetic switches allow for non-intrusive calibration while in the field as well as full system settings and diagnostics. Multi-colored status indicator LEDs notify users from a distance: GREEN (normal), AMBER (Alarm 1), RED (Alarm 2) and WHITE (Fault).



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Product Specifications	
Sensor Type	Electrochemical, Infrared, Photo Ionization Detector
Power Voltage	Wired Power (2-Wire) 12 to 35 VDC (Optional AC Power Supply)
Power Draw	2 Watts Maximum
Protection	Power Electromagnetic Interference (EMI) Filter 4-20 mA Surge Suppression RS-485 Surge Suppression
Display Screen	102x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with White LED Backlight
Interface	3 Push-Buttons (MENU, ADD and SUB) 3 Magnetic Non-Intrusive Switches for Calibration (MENU, ADD and SUB)
Customizable Settings	2 Individually-Configurable Alarm LED Set-Points
Tamb Temperature Range	-20°C to +54°C / -4°F to 130°F
Wired (Analog) Output	4-20 mA (3-Wire) - Fault Terminal
(Digital) Output	RS-485 Modbus Optional GEN II 900 MHz or GEN II 2.4 GHz Radio WireFree Output
Product Dimensions	5" L x 5" W x 5" H
Total Weight	5 lbs.
Hardware Warranty	Limited one year
Sensor Element Warranty	Varies with Gas Type
Part Number Formula	OI-6000-[Sensor Type]-[Gas]-[Radio Option]-[Relay/Light Option]-[Power Option]-C

Gas Type	Range	T ₉₀	Warranty
CL2	0-10 ppm	< 60 sec.	12 months
CLO2	0-1 ppm	< 120 sec.	12 months
CO	0-1000 ppm	< 30 sec.	24 months
CO2	0-5% vol.	< 30 sec.	60 months
H2	0-4% vol.	< 60 sec.	18 months
H2S	0-100 ppm	< 30 sec.	24 months
H2S2K	0-2000 ppm	< 25 sec.	24 months
HCL	0-30 ppm	< 300 sec.	12 months
HCN	0-50 ppm	< 70 sec.	12 months
LEL	0-100% (0-5 % vol.)	< 30 sec.	60 months
NH3	0-100 ppm	< 90 sec.	12 months
NH3A	0-1000 ppm	< 120 sec.	12 months
NO2	0-20 ppm	< 25 sec.	12 months
O2	0-25% vol.	< 15 sec.	24 months
PH3	0-5 ppm	< 30 sec.	12 months
SO2	0-20 ppm	< 35 sec.	24 months
VOC	0-2000 ppm (Max)	< 3 sec.	6 months

