

Data Sheet

Model OI-6000 GenII Sensor Assembly



DESCRIPTION

The Otis Instruments, Inc. Model OI-6000 GenII ambient air gas sensor assembly is the new generation of sensor assemblies from Otis Instruments. The OI-6000 uses an Electro-chemical (EC), Catalytic Bead, or Infrared (IR) sensor element.

The device comes standard with a 128 x 64 graphical LCD screen, Otis Instruments standard three-button interface, Otis-blue custom explosion-proof enclosure, and non-intrusive magnetic switches.

The OI-6000 Sensor Assembly's key feature is non-intrusive calibration and configuration. With all adjustments made at the sensor assembly, one-man non-intrusive calibration is quick, easy, and allows the sensor housing and enclosure to remain Class I, Division 1, Group C and D certified while in the field.

Features such as the auto-setting Null, relay/alarm tests, and system diagnostics make this device a truly remarkable gas detection system.

FEATURES

- Non-intrusive calibration with MENU, ADD and SUB
- Glass lid for viewing amplifier display
- Explosion and weather proof custom Otis-blue enclosure
- Rain/splashguard for sensor protection

PRODUCT PHOTO



SPECIFICATIONS

- Sensor Type:** Electro-chemical (EC), Catalytic Bead, or Infrared (IR)
- Power:** +12-35 Volts DC
- Current Draw:** 100 mA (max)
- Radio Options:** 2.4 GHz ISM, 100 mW, 2.5 miles LOS
- Relays:** Two configurable "dry" contact (Form C) 6.3A @ 250 VAC; 5A @ 30 VDC
- Output Display:** 4-20mA (3-wire); RS-485 Modbus Graphical LCD, sunlight readable LED back-light, 128 x 64 resolution
- Interface:** Three push buttons (MENU, ADD, SUB); three corresponding magnetic, non-intrusive switches; non-intrusive calibration
- Enclosure:** Otis-blue explosion/flame-proof
- Certification:** CSA certified, Class 1, Div I, Groups C and D Ex d IIB, Zone 1 Aex d IIB
- Warranty:** Hardware: One year (limited)
Sensor: Varies with sensor type

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TEMPERATURE RANGES

ELECTROCHEMICAL:

- CO: Operating temperature: -20°C to + 50°C (NEMOTO)
- H2S: Operating temperature: -20°C to + 50°C (NEMOTO)
- NH3: Operating temperature: -30°C to + 50°C (NEMOTO)
- Cl2: Temperature Range -20°C to + 40°C (CITYTECH)
- HCl: Temperature Range -20°C to +40°C (CITYTECH)
- HCN: Temperature Range -40°C to +40°C (CITYTECH)
- O2: Temperature range °C -30 to 55 (ALPHASENSE)
- SO2: -20°C to +50°C (CITYTECH)
- H2: Temperature Range -20°C to +40°C (CITYTECH)
- HF: Temperature Range -20°C to +40°C (CITYTECH)

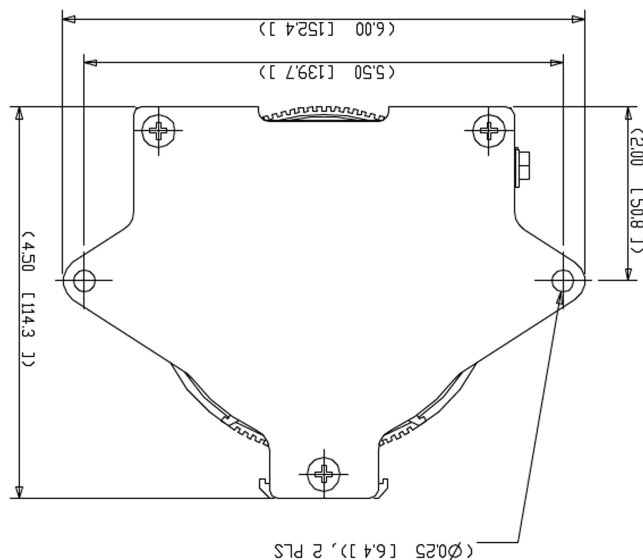
CATALYTIC BEAD:

- Gen I: Temperature Range: -20°C to +70°C (NEMOTO)
- Gen II: Temperature Range: -20°C to +150°C (NEMOTO)

INFRARED:

- IR: Operating temperature range: -20°C to +50°C (-4°F to 122°F) (DYNAMENT)
- IRLT: Operating temperature range: -40°C to +50°C (-4°F to 122°F)

DIMENSIONS



Revision 1.3

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