

OI-315-X Single Gas Personal Monitor

Single Gas Portable Monitor

The Otis Instruments Model OI-315 TOCSIN3 Personal Monitor is a personal safety device designed to detect the presence of toxic gases in ambient air. When activated, the OI-315 continuously monitors ambient air for the presence of O₂, CO, SO₂, H₂, H₂S or NH₃ based on your gas needs and alerts the user to potentially unsafe exposure with visual, vibrating, and audible alarms.

The OI-315 features a belt clip that allows it to be worn on personnel in the field at all times. A polycarbonate enclosure with a rubber covering provides for shock prevention and an IP67 water/dust proof rating. Adjustable alarm set points, a LCD display with LED backlight, internal data logging capability, user-replaceable sensor element, and user-replaceable battery make the OI-315 an integral part of your worker safety plan.


The OI-315 is an excellent choice for industrial applications such as steelworks, petrochemical plants, shipbuilding yards, sewage treatment plants, power supply works, and confined spaces.



Gas Type	Range	T ₉₀
O ₂	0-30%	< 15 Secs.
CO	0-500 ppm	< 30 Secs.
SO ₂	0-20 ppm	< 35 Secs.
H ₂	0-1000 ppm	< 75 Secs.
H ₂ S	0-100 ppm	< 30 Secs.
NH ₃	0-100 ppm	< 60 Secs.

Product Features

- Polycarbonate enclosure with rubber covering for shock protection
- IP67 Water/Dust Proof Rating
- High Performance Audible/Visual/Vibration Alarms
- Adjustable Alarm Set-points
- Automatic sensor diagnostics
- Internal data-logging for up to 20 events
- ATEX Intrinsic Safety Certification

Sensor Type	Electrochemical
Operating Power	CR2 Lithium battery 3V
Battery Life	1.2 years (8 hours of use per day)
Measuring Type	Diffusion
Parameter Control	Front 2 switch (calibration, maintenance, alarm setting)
Operation Mode Display	Visual: digital LCD display, Trouble Red LED
Measuring Value Display	3-digit LCD display
Alarm Display	Visual: Alarm and status icon, Trouble Red LED Audible: Buzzer
T _{amb} Temperature Range	-20°C to +50°C (-4°F to 122°F)
Alarm Level Set	Programmable within detection range
Internal Data Log	Event Log: 20 data
Mounting Type	Belt clip
Programmable Set Mode	Alarm value (1, 2 alarm) Time set Calibration density setting
Operating Humidity	5% to 95% RH (non-condensing)
Enclosure Material	Rubber polycarbonate /TPE
LCD Size	27 W x 17.5 H mm (1.06" W x .69" H)
Dimensions	54 W x 91 H x 42 D mm (2.13" W x 3.58" H x 1.65" D)
Weight	120 g (including battery)
Hazardous Location Certification and Approvals	 Ex ia IIC T4 IP67 (KGS, ATEX)
Part Number Formula	OI-315-[Gas] OI-315-X
Hardware Warranty	Limited two year

