







OTIS
INSTRUMENTS INC.

PRODUCT CATALOG

Table of Contents

Explosion Proof Sensor Assemblies.....2
- OI-6000-IR-152-X-X-O Sensor Assembly.....3
- OI-6000-X-X-X-X-O Sensor Assembly.....5
- OI-6900-X-X-O-2B Sensor Assembly.....7
- OI-6900-X-X-K-2B Sensor Assembly.....9
- OI-6940-X-X-XP Quad Sensor Assembly.....11
- OI-675 Sensor Assembly.....13
- OI-501-X Remote Sensor Mount.....15

Non-Explosion Proof Sensor Assemblies.....17
- OI-6000-X-X-X-X-X-C Sensor Assembly.....18
- OI-6000K Sensor Assembly Kit.....20
- OI-6900-X-X-C-2B Sensor Assembly.....22
- OI-501-X-NXP-X-X Remote Sensor Mount.....24

WireFree Monitor Repeaters and Accessories.....26
- OI-7010-X-X-A4-32-X Hybrid Monitor.....27
- OI-7032-X-X-A4 Hybrid Touchscreen Monitor.....29
- OI-7500-X-XP-X WireFree Monitor.....31
- OI-7530-X-X-A WireFree Relayer.....33
- OI-7530-X-X-I WireFree Relayer.....35
- OI-7543-6-X-X-I WireFree Monitor.....37
- OI-9850-X-X-A4-X WireFree Interface.....39
- OI-9100-X WireFree Viewer.....41
- OI-9900-X WireFree Repeater.....43

Wired 4-20 mA and RS-485 Monitors.....45
- OI-7420-X-2 Wired Monitor.....46
- OI-7440-X-4 Wired Monitor.....48
- OI-7480-X-X Wired Monitor.....50
- OI-7432-X-32 Modbus Monitor.....52
- OI-315-X Personal Monitor.....54

EXPLOSION PROOF SENSOR ASSEMBLIES

OTIS INSTRUMENTS INC.

EXPLOSION PROOF SENSOR ASSEMBLIES



GEN^2 OTIS

OI-6000-IR-152-X-X-O Sensor Assembly

Explosion Proof Ambient Air Combustible Gas Detector

The Otis Instruments OI-6000 Series Ambient Air Combustible Gas Detector is a versatile assembly that uses an infrared sensor element to detect combustible gases in ambient air. Wired power (12 to 35 VDC) with 4-20 mA analog and RS-485 Modbus outputs standard. Magnetic switches allow for non-instrusive calibration while in the field as well as full system settings and diagnostics while remaining Class I, Division 1, Groups C & D Certified.



Gas Type	Range	T_{50}	T_{90}	Warranty
IR-LEL	0-100% (0-5 % vol.)	<10 sec.	< 30 sec.	24 months

C PS US CERTIFIED

Product Features

- Infrared Sensor Element
- Wired Power (3-Wire) with a 12 to 35 VDC Operating Voltage
- Operating Temperature Range of -40°C to +54°C
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- Optional OI-6800 Remote Mount Control Unit
- 2 Individually Configurable Alarm Set-Points: 2 Front Panel LED Indicators (Amber and Red); Optional 2 Dry-Contact Relays
- Output Options: 4-20 mA (3-Wire) Analog, RS-485 Modbus
- Sensor Element Warranty Subject to Otis Verification
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700
sales@otisinstruments.com

OI-6000-IR-152-X-X-O Sensor Assembly

Explosion Proof Ambient Air Combustible Gas Detector

OI-6000-IR-152-X-X-O Product Specifications

Product Specifications	
Sensor Type	Infrared Sensor Element
Operating Voltage	Wired Power (3-Wire) 12 to 35 VDC
Current Draw	1 Amp Maximum
Protection	Power Eletromagnetic 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-Instrusive Switches for Calibration
Customizable Settings	2 Individually-Configurable Alarm LED/Relay Set-Points
T_{amb} Temperature Range	-40ºC to +54ºC (-40ºF to +130ºF)
Output (Digital)	RS-485 Modbus
Wired (Analog) Output	4-20 mA (3-Wire) Fault Terminal Optional 2 Dry-Contact Relays with Replaceable 4 Amp Fuses
Remote Mount Control Unit (Optional Additional Feature)	OI-6800 Remote Control Unit • Allows Full Operational Control of the Remotely Connected OI-6000-IR-152-X-X-O • Available in Explosion Proof and Non-Explosion Proof Enclosure Option • Ability to Include an Additional 2-Dry Contact Relays • Ability to Add a GEN II 900 MHz or 2.4 GHz Radio for WireFree Signal Reporting to other Otis Monitors
Product Dimensions	5.5 in. T x 6 in. W x 7 in. H (8 in. W x 17 in. H Max. with Attachments)
Total Weight	5.75 lbs.
Hazardous Location Certifications and Approvals	Class I, Division 1, Groups C & D Ex db ia IIB T4 Gb Class I, Zone 1, AEx db ia IIB T4 Gb Tamb -40 Cto +54 C CSA 22.2 No. 152 ANSI/ISA 12.13.01-2013
Hardware Warranty	1-Year, Limited
Sensor Element Warranty	24 Months (Subject to Otis Verification of Element Condition)
Part Number Formula	OI-6000-IR-152-X-X-O (No Relays Installed) OI-6000-IR-152-X-R-O (2 Dry-Contact Relays Installed)

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-6000-X-X-X-X-O Sensor Assembly

Explosion Proof Wired Power Ambient Air Hazardous Gas Detector

The Otis Instruments OI-6000 Series Ambient Air Hazardous Gas Detector is a versatile assembly that uses an eletrochemical, infrared, catalytic bead 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 standard. Mangetic switches allow for non-instrusive calibration while in the field as well as full system settings and diagnostics.



Gas Type	Range	T_{90}	Warranty
CB-LEL	0-100% (0-5 % vol.)	< 90 sec.	24 months
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
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
IR-LEL	0-100% (0-5 % vol.)	< 30 sec.	60 months
NH3	0-100 ppm	< 90 sec.	12 months
NH3300	0-300 ppm	< 120 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

Product Features

- Electrochemical, Infrared, Catalytic Bead or PID Snesor Element
- Wired Power (3-Wire), 12 to 35 VDC Operating Voltage
- Operating Temperature Range of -40°C to +54°C
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- 2 Individually Configurable Alarm Set-Points: Two Front Panel LED Indicators (Amber and Red); Optional Two- Dry-Contact Relays
- Output Options: 4-20 mA (3-Wire) Analog, RS-485 Modbus, Optional GEN II 900 MHz or GEN II 2.4 GHz Radio
- Sensor Element Warranty Subject to Otis Verification
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

GEN^2

OI-6000-X-X-X-X-O Sensor Assembly

Explosion Proof Wired Power Ambient Air Hazardous Gas Detector

OI-6000-X-X-X-X-O Product Specifications

Product Specifications	
Sensor Type	Eletrochemical, Infrared, Catalytic Bead or PID
Operating Voltage	Wired Power (3-Wire) 12 to 35 VDC
Power Draw	2 Watts Maximum
Protection	Power Eletromagnetic 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-Instrusive Switches for Calibration
Customizable Settings	2 Individually-Configurable Alarm LED/Relay Set-Points
T_{amb} Temperature Range	-40ºC to +54ºC (-40ºF to +130ºF)
Output (Digital)	RS-485 Modbus
Wired (Analog) Output	4-20 mA (3-Wire) Fault Terminal Optional 2 Dry-Contact Relays with Replaceable 4 Amp Fuses
Remote Sensor Kit (Optional Additional Feature)	OI-501-5 Remote Sensor Kit with Enclosure (5 Pin) • Electrochemical Sensor Max. Length: 250 Feet • Infrared Sensor Max. Length: 40 Feet • PID Sensor Max. Length: 35 Feet • Catalytic Bead Sensor Max. Length: 15 Feet
Product Dimensions	5.5 in. T x 6 in. W x 7 in. H (8 in. W x 17 in. H Max. with Attachments)
Total Weight	6 lbs.
Hazardous Location Certifications and Approvals	Class I, Division 1, Groups C & D Ex d IIB T6 Gb Class I, Zone 1, AEx db IIB T6 Gb Tamb -40ºC to +54ºC
Hardware Warranty	1-Year, Limited
Sensor Element Warranty	Varies with Gas Type
Part Number Formula	OI-6000-[Sensor Type]-[Gas]-[Radio Option]-[Relay Option]-O OI-6000-X-X-X-X-O

OTIS INSTRUMENTS INC.

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-6900-X-X-O-2B Sensor Assembly

WireFree Dual Battery Ambient Air Toxic Gas Detector

The Otis Instruments WireFree OI-6900 Series Ambient Air Toxic Gas Detector is a versatile assembly that uses an electrochemical, PID or low-power infrared sensor element to detect a variety of gases. WireFree, dual battery power (3.6 V Lithium-Thionyl Chloride battery) with 900 MHZ or 2.4 GHz Radio options. Magnetic switches allow for non-instrusive calibration while in the field as well as full system settings and diagnostics.

Type	Range	T_{90}	Warranty
CL2	0-10 ppm	—	12 months
CO	0-1000 ppm	< 210 sec.	24 months
H2S	0-100ppm	< 40 sec.	24 months
HCL	0-100 ppm	—	12 months
HCN	0-50 ppm	< 70 sec.	12 months
HF	0-10 ppm	—	12 months
LEL	0-100% LEL	< 50 sec.	24 months
NH3	0-100 ppm	—	12 months
NH3A	0-1000 ppm	—	12 months
NO2	0-20 ppm	—	12 months
O2	0-25% vol.	—	24 months
PH3	0-5 ppm	< 55 sec.	12 months
SO2	0-20 ppm	< 95 sec.	24 months



Product Features

- Electrochemical, PID or Low-Power Infrared Sensor
- WireFree (Wireless) Communication; Dual Battery-Powered: 3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl (Li-SOCl2) Chloride Battery with Connector (Non-Rechargable)
- Battery Life: 1-Year Maximum - Low-Power Infrared, 2-Year Maximum - Electrochemical
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- Adjustable Background Gas Setting
- 102x64 Resolution Graphical LCD Screen; Transflective (Sunlight Readable) with LED Backlight
- QPS Explosion/Flame-Proof Certification for Select Gases
- Radio Options: 900 MHz Radio and 52 Networks or 2.4 GHz Radio and 78 Networks
- Sensor Element Warranty Varies with Gas Type
- Battery Warranty is 90 Days from Product Ship Date
- 1-Year Limited Hardware Warranty
- Optional OI-501 Remote Sensor Kit with Enclosure

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-6900-X-X-O-2B Sensor Assembly

WireFree Dual Battery Ambient Air Toxic Gas Detector

OI-6900-X-X-O-2B Product Specifications

Product Specifications	
Sensor Type	Electrochemical, PID or Low-Power Infrared Sensor
Power Type	Dual Battery-Powered
Operating Voltage	3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl (Li-$SOCl_2$) Battery, with Connector (Non-Rechargeable)
Battery Life	1-Year Max. (Low-Power Infrared), 2-Year Max. (Electrochemical), 14+ Days (PID)
RF Connection	External N-Female Radio Frequency (RF) Connector
Display Screen	102x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	3 Push-Buttons (MENU, ADD, and SUB) 3 Magnetic Non-Intrusive Switches for Calibration (MENU, ADD, and SUB)
Customizable Settings	Adjustable Background Gas Setting
T_{amb} Temperature Range	-40 to +54°C
WireFree Radio Options	GEN II 900 MHz (200 mW) Radio (1-1.5 Miles Range) or GEN II 2.4 GHz (125 mW) Radio (1-1.5 Miles Range)
Networks	52 Networks (GEN II 900 MHz Radio) or 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Product Dimensions	5.42 in. L x 6.03 in. W x 17.03 in. H (Max. Dimensions w/ Attachments)
Total Weight	6 lbs.
Remote Sensor Kit Additional feature	OI-501 Remote Sensor Kit with Enclosure (7 pin) Available in lengths of up to 250 feet for Electrochemical and lengths of up to 40 feet for Low Power IR
Approvals	QPS Certified Explosion/Flame Proof
Hazardous Location Certifications and Approvals	Class I, Division 1, Groups C and D Ex db IIB T6 Gb Class I, Zone 1, AEx db IIB T6 Gb Tamb -40ºC to +54ºC
Hardware Warranty	Limited one year
Sensor Element Warranty	Varies with Sensor Element and Type
Battery Warranty	90 Days from Ship Date
Part Number Formula	OI-6900-[Gas]-[Radio]-[Enclosure]-[2 Battery] OI-6900-X-X-O-2B

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-6900-X-X-K-2B Sensor Assembly

WireFree Dual Battery Ambient Air Toxic Gas Detector

The Otis Instruments WireFree OI-6900 Series Ambient Air Toxic Gas Detector is a versatile assembly that uses an electrochemical, PID or low-power infrared sensor element to detect a variety of gases. WireFree, dual battery power (3.6 V Lithium-Thionyl Chloride battery) with 900 MHZ or 2.4 GHz Radio options. Magnetic switches allow for non-instrusive calibration while in the field as well as full system settings and diagnostics.

Type	Range	T_{90}	Warranty
H2	0-4% vol.	—	18 months
CL2	0-10 ppm	—	12 months
CO	0-1000 ppm	< 210 sec.	24 months
H2S	0-100 ppm	< 40 sec.	24 months
HCL	0-100 ppm	—	12 months
HCN	0-50 ppm	< 70 sec.	12 months
HF	0-10 ppm	—	12 months
LEL	0-100% LEL	< 50 sec.	24 months
NH3	0-100 ppm	—	12 months
NH3A	0-1000 ppm	—	12 months
NO2	0-20 ppm	—	12 months
O2	0-25% vol.	—	24 months
PH3	0-5 ppm	< 55 sec.	12 months
SO2	0-20 ppm	< 95 sec.	24 months



Product Features

- Electrochemical, PID or Low-Power Infrared Sensor
- WireFree (Wireless) Communication; Dual Battery-Powered: 3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl (Li-SOCl2) Chloride Battery with Connector (Non-Rechargable)
- Battery Life: 1-Year Maximum - Low-Power Infrared, 14 Days+ - PID 2-Year Maximum - Electrochemical
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- Adjustable Background Gas Setting
- 102x64 Resolution Graphical LCD Screen; Transflective (Sunlight Readable) with LED Backlight
- UL/CSA/FM Explosion/Flame-Proof Certification for Main Enclosure, QPS Explosion/Flame-Proof Certification for Sensor Housing
- Radio Options: 900 MHz Radio and 52 Networks or 2.4 GHz Radio and 78 Networks
- Sensor Element Warranty Varies with Gas Type
- Battery Warranty is 90 Days from Product Ship Date
- 1-Year Limited Hardware Warranty
- Optional OI-501 Remote Sensor Kit with Enclosure

OTIS INSTRUMENTS INC.

301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700
sales@otisinstruments.com

OI-6900-X-X-K-2B Sensor Assembly

WireFree Dual Battery Ambient Air Toxic Gas Detector

OI-6900-X-X-K-2B Product Specifications

Product Specifications		
Sensor Type	Electrochemical, PID or Low-Power Infrared Sensor	
Power Type	Dual Battery-Powered	
Operating Voltage	3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl (Li-$SOCl_2$) Battery, with Connector (Non-Rechargeable)	
Battery Life	1-Year Max. (Low-Power Infrared), 2-Year Max. (Electrochemical), 14+ Days (PID)	
RF Connection	External N-Female Radio Frequency (RF) Connector	
Display Screen	102x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight	
Interface	3 Push-Buttons (MENU, ADD, and SUB) 3 Magnetic Non-Intrusive Switches for Calibration (MENU, ADD, and SUB)	
Customizable Settings	Adjustable Background Gas Setting	
T_{amb} Temperature Range	-20 to +60°C	
WireFree Radio Options	GEN II 900 MHz (200 mW) Radio or GEN II 2.4 GHz (125 mW) Radio	
Networks	52 Networks (GEN II 900 MHz Radio) or 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network	
Product Dimensions	5.30 in. L x 8.26 in. W x 17.76 in. H (Max. Dimensions w/ Attachments)	
Total Weight	6 lbs.	
Remote Sensor Kit Additional feature	OI-501 Remote Sensor Kit with Enclosure (7 pin) Available in lengths of up to 250 feet for Electrochemical and lengths of up to 40 feet for Low Power IR	
Approvals	UL/CSA/FM Certified Explosion/Flame-Proof Main Enclosure QPS Certified Explosion/Flame-Proof Sensor Housing	
Hazardous Location Certifications and Approvals	*Main Enclosure* Class I, Div. 1 & 2, Groups B, C, D Class I, Zones 1 & 2, Groups IIB + H2, IIA Class II, Div. 1 & 2, Groups E, F, G Class III, Type 3, 4, 4X NEMA 3, 4, 4X, 7 (B, C, D) 9 (E, F, G) T_a= -20°C to +60°C	*Sensor Housing* Class I, Division 1, Groups B, C and D T_{Amb}= -40 °C to +60 °C
Hardware Warranty	Limited one year	
Sensor Element Warranty	Varies with Sensor Element and Type	
Battery Warranty	90 Days from Ship Date	
Part Number Formula	OI-6900-[Gas]-[Radio]-[Enclosure]-[2 Battery] OI-6900-X-X-K-2B	

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-6940-X-X-XP Quad Sensor Assembly

WireFree Battery Powered Explosion-Proof Multi-Gas Detector

The Otis Instruments OI-6940 Series Ambient Air Multi-Gas Detector is a versatile assembly that uses up to four electrochemical, PID or low-power infrared sensor elements to detect a variety of gases. WireFree, battery power (3.6 V/76 Ah) with 900 MHZ or 2.4 GHz Radio options. Magnetic switches allow for non-instrusive calibration while in the field as well as full system settings and diagnostics. Mounting is made easy and mobile using the OI-6940-ST optional wheeled stand.

Gas Type	Range	T_{90}	Warranty
CO	0-1000 ppm	< 30 secs.	24 months
H2S	0-100ppm	< 30 secs.	24 months
HCN	0-50 ppm	< 70 secs.	12 months
LEL	0-100% LEL	< 50 secs.	24 months
O2	0-25% vol.	—	24 months
SO2	0-20 ppm	< 35 secs.	24 months



Product Features

- Electrochemical, PID or Low-Power Infrared Sensor
- WireFree (Wireless) Communication
- Battery Powered: 3.6 V/76 Ah Battery Pack (Non-Rechargable)
- Battery Life: 6 Months Maximum; 2 Months+ - PID
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 4 Corresponding Magnetic, Non-Intrusive Switches
- Adjustable Background Gas Setting per Sensor
- Radio Options: 900 MHz Radio or 2.4 GHz Radio
- Sensor Element Warranty Subject to Otis Verification
- 1-Year Limited Hardware Warranty
- Optional OI-501 Remote Sensor Kit
- Optional OI-6940-ST Wheeled Stand

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-6940-X-X-XP Quad Sensor Assembly

WireFree Battery Powered Explosion-Proof Multi-Gas Detector

OI-6940-X-X-XP Product Specifications

Product Specifications	
Sensor Type	Electrochemical, PID and/or Low-Power Infrared Sensor
Power Type	Battery Powered 3.6 V (76 Ah) Battery Pack (Non-Rechargeable)
Battery Life	6 Months Maximum Battery Life
RF Connection	External N-Female Radio Frequency (RF) Connector
Display Screen	160x104 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	4 Push-Buttons (MENU, BACK, ADD, and SUB) 4 Magnetic Non-Intrusive Switches for Calibration (MENU, BACK, ADD, and SUB)
Customizable Settings	Adjustable Background Gas Setting Settable per Sensor Element
T_{amb} Temperature Range	-40°C to +60°C
WireFree Radio Options	GEN II 900 MHz Radio or GEN II 2.4 GHz Radio
Networks	52 Networks (GEN II 900 MHz Radio) or 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Component Certification	Class I, Division 1 Groups C & D
Product Dimensions	7 in. D x 11 in. W x 24 in. H (Max. Dimensions w/ Attachments)
Total Weight	25 lbs.
Hardware Warranty	Limited One Year
Sensor Element Warranty	Varies with Sensor Type and Element and is Subject to Otis Verification
Part Number Formula	OI-6940-[Number of Sensors]-[Radio]-XP OI-6940-X-X-XP
Optional Remote Sensor Kit	OI-501-7 Remote Sensor Kit Part Number—OI-501-7 • Electrochemical Sensor—Up to 250 Feet of Cable • Low Power Infrared Sensor—Up to 40 Feet of Cable
Optional Product Accessories	OI-6940-ST, 2-Wheeled Cart/Stand

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GENI²

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-instrusive 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 +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

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

GEN²

OI-675 Sensor Assembly

2-Wire Electrochemical Toxic Gas Detector

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 Mangetic, Non-Instrusive Switches for Calibration
T_{amb} Temperature Range	-40ºC to +55ºC (-40ºF to +131ºF) (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, H2S, O2 and SO2 Gas Types)
Hazardous Location Certification annd 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

OTIS INSTRUMENTS INC.

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GENI²

OTIS

OI-501-X Remote Sensor Mount

Explosion Proof Hazardous Location Remote Sensor Mounting Kit

The Otis Instruments OI-501 Explosion Proof Hazardous Location Remote Sensor Mounting Kit allows the user to separate the sensor housing from the Otis sensor assembly in order to easily monitor hard-to-reach areas while allowing easy access to the control board for maintenance and configuration tasks. Compatible with Otis OI-6000, OI-6000K, OI-6900 and OI-6940 sensor assemblies.



Product Features

- Supports Electrochemical, Infrared, Catalytic Bead or PID Sensor Elements
- Reuses Existing Sensor Housing and Sensor Element
- Cabling Sold By the Foot with Maximum Lengths - Electrochemical: 250 Feet; Infrared: 40 Feet; PID: 35 Feet; Catalytic Bead: 15 Feet
- Operating Temperature Range of -40°C to +60°C
- Class I, Division 1, Groups C & D Certifications
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

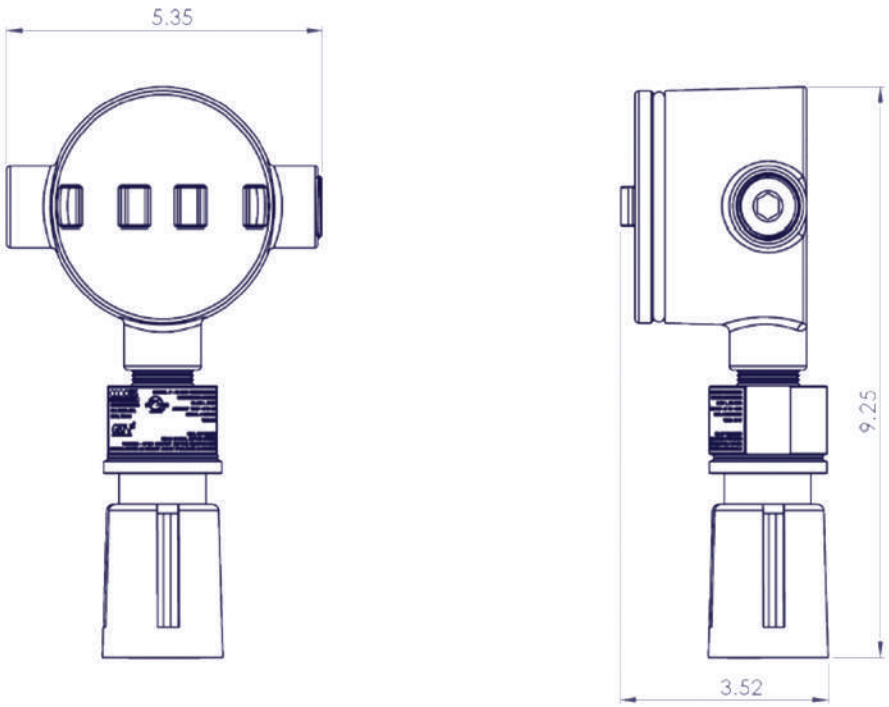
301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700
sales@otisinstruments.com

OI-501-X Remote Sensor Mount

Explosion Proof Hazardous Location Remote Sensor Mounting Kit

OI-501-X Product Specifications

Product Specifications	
Sensor Types	Electrochemical, Infrared, Catalytic Bead or PID Sensor Element
T_{amb} Temperature Range	-40ºC to +60ºC (-40ºF to +140ºF)
Product Dimensions	5.35 in. W x 9.25 in. H x 3.52 in. D
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-501-[Number of Pins] [Number of Pins]: 5 - Used with OI-6000, OI-6000K and OI-6400 7 - Used with OI-6900 and OI-6940
Sensor Cable	OI-SENSOR-CABLE-[Number of Pins] [Number of Pins] - Same As Above **Specify Length When Ordering** Maximum Length per Sensor Type: • Electrochemical: 250 Feet • Infrared: 40 Feet • PID: 35 Feet • Catalytic Bead: 15 Feet
Certification	Class I, Division 1, Groups C & D Tamb -40ºC to +60ºC



© April 2019, Revision P, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

OTIS INSTRUMENTS INC.

NON-EXPLOSION PROOF SENSOR ASSEMBLIES



THE CUBE

OI-6000-X-X-X-X-X-C Sensor Assembly

Non-Explosion Proof Wired Power Ambient Air Toxic Gas Detector

The Otis Instruments OI-6000 Series Ambient Air Toxic Gas Detector 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.



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

Product Features

- Electrochemical, Infrared or PID Sensor Element
- Wired Power (3-Wire), 12-35 VDC Operating Voltage, Optional AC Power Supply
- Operating Temperature Range of –20°C to +54°C
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- 2 Individually Configurable Alarm Set Points; Integrated LED Lighting Systems - Configurable for RED, AMBER, BLUE, WHITE per Alarm and Fault Conditions
- Piezo Terminal Buzzer per Alarm and Fault Conditions – Piezo Terminal Can Power External Alarm Up to 500mA
- Output Options: 4-20mA (3-Wire) Analog, RS-485 Modbus, Optional GEN II 900 MHz or GEN II 2.4 GHZ Radio
- Sensor Element Warranty Subject to Otis Verification
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

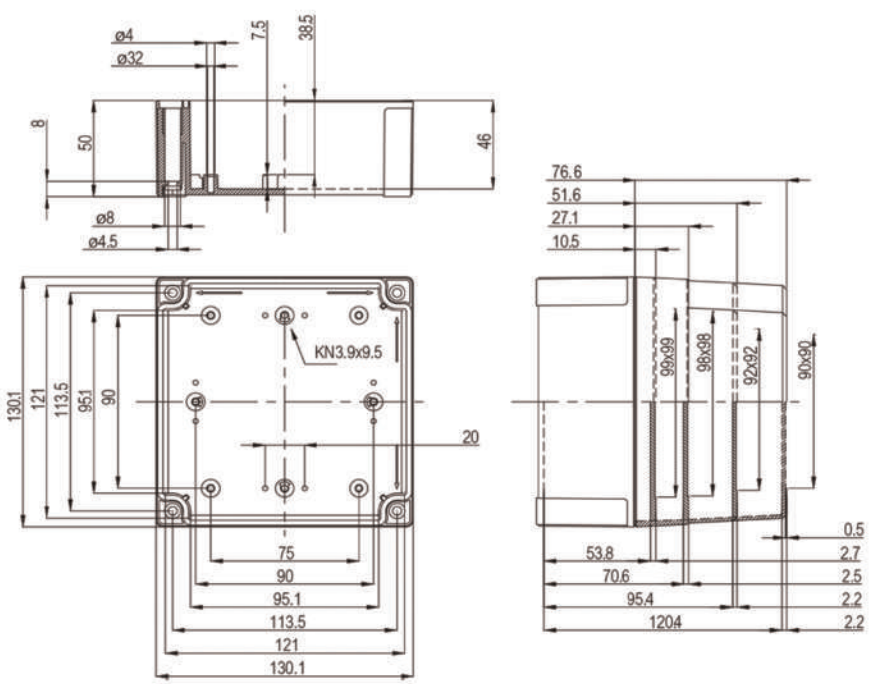
THE CUBE

OI-6000-X-X-X-X-X-C Sensor Assembly

Non-Explosion Proof Wired Power Ambient Air Toxic Gas Detector

OI-6000-X-X-X-X-X-C Product Specifications

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



© March 2019, Revision 1.0, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

OTIS INSTRUMENTS INC.

GEN^2

OTIS

OI-6000K Sensor Assembly Kit

Wire Powered Non-Explosion Proof Sensor Assembly with Light and Horn

The Otis Instruments OI-6000K Ambient Air Sensor Assembly Kit is a versatile assembly that uses an electrochemical, catalytic bead, PID of infrared sensor element for sensing a variety of toxic gases. The OI-6000K features an auto-setting Null, relay/alarm tests, and system diganotics, and is housed in a figerglass enclosure with a clear window.



Product Features

- Electrochemical, Catalytic Bead, PID or Infrared Sensor
- Wire Powered: +12-35 Volts DC (with Battery Clips); 110/240 Volts AC (with Cord Grips and Cable)
- Graphical LCD (Sunlight Readable) with LED Backlight
- Fiberglass Enclosure with a Clear Window for Viewing Display Screen
- Rain/Splashguard for Sensor Protection
- 3 Push-Buttons Interface (MENU, ADD and SUB)
- Pre-Mounted Light (Amber or Tri-Color) and Horn (102dB) for Quick, Easy Installation
- Output Options: 4-20 mA (3-Wire); RS-485 Modbus
- Ability to Remote the Sensor 10, 25, 50, 75, or 100 Ft. from the Enclosure
- 1-Year Limited Hardware Warranty
- Sensor Warranty Varies with Sensor Type

OTIS INSTRUMENTS INC.

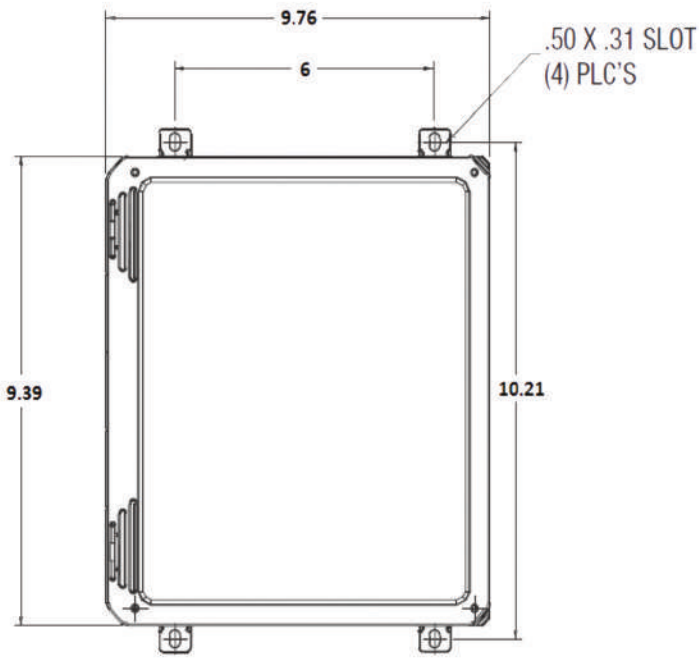
301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700
sales@otisinstruments.com

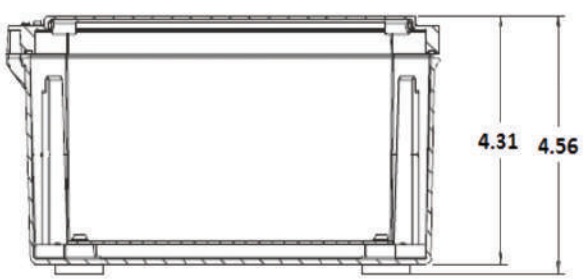
OI-6000K Sensor Asssembly Kit

Wire Powered Non-Explosion Proof Sensor Assembly with Light and Horn

OI-6000K Product Specifications

Product Specifications	
Sensor Type	Electrochemical, Catalytic Bead, PID or Infrared
Power Type	Wired Power
Current Draw	1.25 A Maximum at 24 VDC)
Relays	5 Amp Relays with 4 Amp Fuses
Interface	3 Push-Buttons (MENU, ADD and SUB)
Display Screen	102x64 Resolution Graphical LCD (Sunlight Readable) with LED Back Light
Operating Voltage	+12-35 V DC (with Battery Clips) 110/240 V AC (with Cord Grips and Cable)
Output	4-20 mA (3-Wire) RS-485 Modbus
Enclosure Material	Fiberglass Enclosure with Clear Window (with Wall Mount)
Product Dimensions	8 in. L x 8 in. W x 4 in. H
Hardware Warranty	1-Year, Limited; Sensor Warranty Varies with Sensor Type
Part Number Formula	OI-6000-K-[Sensor-Type]-[Gas Type]-[Power Supply]-NXP-[Strobe Color] OI-6000K-X-X-X-NXP-X





© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

THE CUBE

OI-6900-X-X-C-2B Sensor Assembly

Non-Explosion Proof WireFree Dual Battery Ambient Air Toxic Gas Detector

The Otis Instruments OI-6900 Series Ambient Air Toxic Gas Detector is a versatile assembly that uses an eletrochemical, low-powered infrared or PID sensor element to detect a variety of gases. WireFree (or wireless) dual battery-powered available with GEN II 900 MHz or 2.4 GHz Radios. Magnetic switches allow for non-instrusive calibration while in the field as well as full system setting and diagnostics.



Gas Type	Range	T_{90}	Warranty
H2	0-4% vol	—	18 months
CL2	0-10 ppm	< 60 secs.	12 months
CO	0-1000 ppm	< 30 secs.	24 months
H2S	0-100ppm	< 30 secs.	24 months
HCL	0-100 ppm	<300 secs.	12 months
HCN	0-50 ppm	<70 secs.	12 months
HF	0-10 ppm	< 90 secs.	12 months
LEL	0-100% LEL	< 50 sec.	24 months
NH3	0-100 ppm	<90 secs.	12 months
NH3A	0-1000 ppm	< 120 secs.	12 months
NO2	0-20 ppm	< 25 secs.	12 months
O2	0-25% vol.	—	24 months
PH3	0-5 ppm	< 30 secs.	12 months
SO2	0-20 ppm	< 35 secs.	24 months
VOC10	0-10 ppm	<90 sec.	6 months
VOC20	0-20 ppm	<90 sec.	6 months
VOC50	0-50 ppm	<90 sec.	6 months
VOC1K	0-1000 ppm	<90 sec.	6 months
VOC2K	0-2000 ppm	<90 sec.	6 months

Product Features

- Electrochemical, Low-Powered Infrared or PID Sensor Element
- Dual Battery-Powered: 3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl Chloride (Li-SOCL2) Battery with Connector (Non-Rechargable)
- Estimated Battery Life: Electrochemical - 2-Year Maximum; PID - 14-Days+ ; Low-Powered Infrared - 1-Year Maximum
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- WireFree (Wireless) Communication
- Adjustable Background Gas Setting
- Reports Once a Minute; Reporting Rate will Increase to Once Every 5 Seconds When Gas is Above Set-Point
- Available with GEN II 900 MHZ or GEN II 2.4 GHZ Radio
- 1-Year Limited Hardware Warranty
- Sensor Element Warranty Subject to Otis Vertification

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

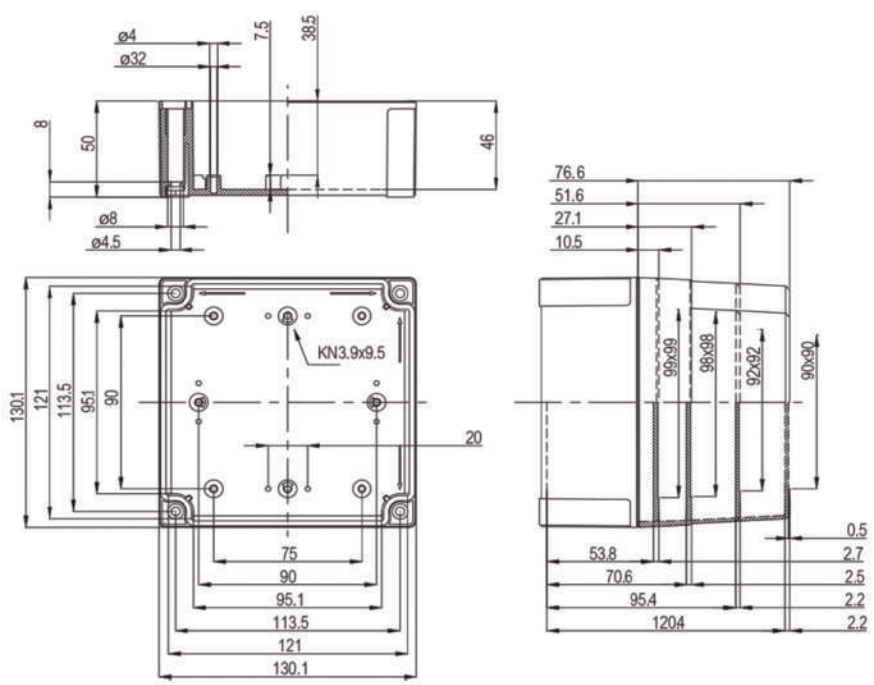
THE CUBE

OI-6900-X-X-C-2B Sensor Assembly

Non-Explosion Proof WireFree Dual Battery Ambient Air Toxic Gas Detector

OI-6900-X-X-C-2B Product Specifications

Product Specifications	
Sensor Type	Electrochemical, Photo Ionization Detector, or Low-Power Infrared Sensor
Power Type	Dual Battery-Powered
Operating Voltage	3.6 V (19 Ah each, 38 Ah total) Lithium-Thionyl (Li-$SOCl_2$) Battery, with Connector (Non-Rechargeable)
Estimated Battery Life	• Low Power Infrared - 1-Year Max. • Photo Ionization Detector - 14 Days + • Electrochemical - 2-Year Max.
RF Connection	Internal Antenna
Display Screen	102x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	3 Push-Buttons (MENU, ADD, and SUB) 3 Magnetic Non-Intrusive Switches for Calibration (MENU, ADD, and SUB)
Customizable Settings	Adjustable Background Gas Setting
T_{amb} Temperature Range	-20 to +54°C
WireFree Radio Options	GEN II 900 MHz (200 mW) Radio or GEN II 2.4 GHz (125 mW) Radio
Networks	52 Networks (GEN II 900 MHz Radio) or 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Product Dimensions	15.76 in. L x 5.11 in. W x 5.37 in. H (Max. Dimensions w/ Attachments)
Total Weight	6 lbs.
Hardware Warranty	Limited one year
Sensor Element Warranty	Varies with Sensor Element and Type
Part Number Formula	OI-6900-[Gas]-[Radio]-[Enclosure]-2B OI-6900-X-X-C-2B



© March 2019, Revision 1.0, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-501-X-NXP-X-X Remote Sensor Mount

Non-Explosion Proof Hazardous Location Remote Sensor Mounting Kit

The Otis Instruments OI-501 Non-Explosion Proof Hazardous Location Remote Sensor Mounting Kit allows the user to separate the sensor housing from the Otis sensor assembly in order to easily monitor hard-to-reach areas while allowing easy access to the control board for maintenance and configuration tasks. Compatible with Otis OI-6000, OI-6000K, OI-6400, OI-6900 and OI-6940 sensor assemblies.



Product Features

- Supports Electrochemical, Infrared or PID Sensor Elements
- Includes Sensor Housing and Sensor Adapter Board for Specified Gas Type - Reuses Existing Sensor Element
- Cabling Sold By the Foot with Maximum Lengths - Electrochemical: 250 Feet; Infrared: 40 Feet; PID: 35 Feet
- Operating Temperature Range of -20°C to +54°C
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

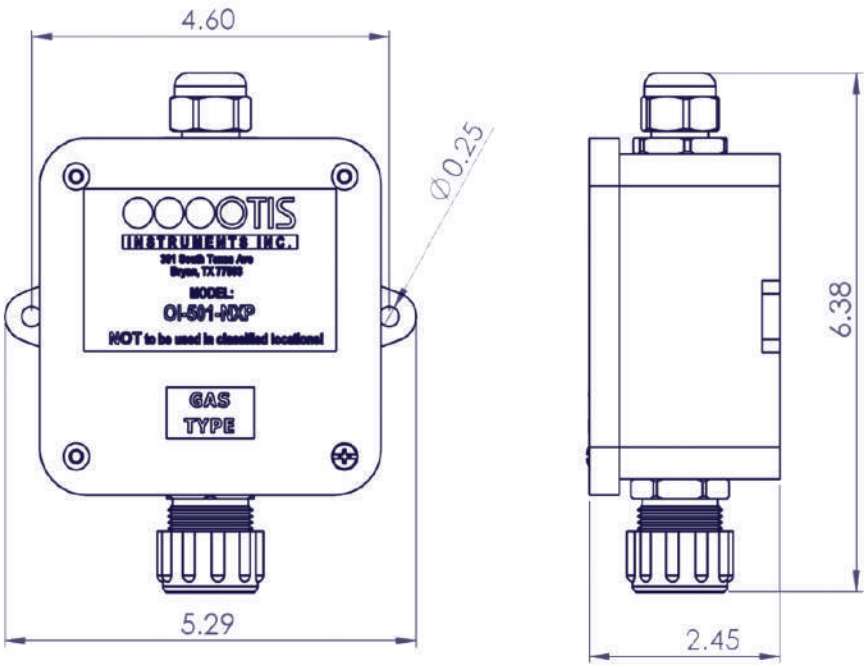
sales@otisinstruments.com

OI-501-X-NXP-X-X Remote Sensor Mount

Non-Explosion Proof Hazardous Location Remote Sensor Mounting Kit

OI-501-X-NXP-X-X Product Specifications

Product Specifications	
Sensor Types	Eletrochemical, Infrared or PID Sensor Element
T_{amb} Temperature Range	-20ºC to +54ºC (-4ºF to +129ºF)
Product Dimensions	5.29 in. W x 6.38 in. H x 2.45 in. D
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-501-[Number of Pins]-NXP-[Sensor Type]-[Gas Type] [Number of Pins]: 5 - Used with OI-6000, OI-6000K and OI-6400 7 - Used with OI-6900 and OI-6940 [Sensor Type]: Any Sensor Type Supported By Above Sensor Units [Gas Type]: Any Gas Type Supported By Above Sensor Units
Sensor Cable	OI-SENSOR-CABLE-[Number of Pins] [Number of Pins] - Sam As Above **Specifiy Length in Feet When Ordering** Maximum Length per Sensor Type: • Electrochemical: 250 Feet • Infrared: 40 Feet • PID: 35 Feet



© April 2019, Revision P, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

OTIS INSTRUMENTS INC.

WIREFREE MONITORS, REPEATERS, AND ACCESSORIES



GEN II OTIS

OI-7010-X-X-A4-32-X Hybrid Monitor

32 Channel Non-Explosion Proof Hybrid Monitor

The Otis Instruments OI-7010 Controller is a Hybrid Monitor that supports up to 32 WireFree Sensor inputs. Four of the channels can be setup for 4-20 mA wired input, making the controller compatible with both WireFree and wired sensors. Durable, flexible and customizable, this controller can operate in conjunction with either GEN I or GEN II sensors.



Product Features

- 32 Channel Hybrid Monitor - Supports WireFree and Up to 4 Wired Sensors
- 12 to 35 VDC Operating Voltage with Optional AC Power Supply
- Operating Temperature Range of -40ºC to +70ºC
- 5 Push-Button Interface (ADD, MENU, SUB, SCAN/HOLD and RESET/ESC)
- Two Graphical LCDs with LED Back Lights
- 5 Push-Button Interface (ADD, MENU, SUB, SCAN/HOLD and RESET/ESC)
- Radio Options: GEN II 900 MHz, GEN II 2.4 GHz Standard; GEN I 900 MHz Radio Can Also Be Installed
- 4 Individually Configurable Alarm Set-Points - Four Front Panel ALARM LED Indicators (Red); Four Dry-Contact Relays (4 Amps Maximum per Relay)
- Status LEDs for Power and Fault - Multi-Color Status Light; Amber Fault LED for Indicating System Faults
- Output Options: Wet Contact DC Fault Terminal, Relay 4 Can Optionally Be Configured as a Fault Relay, RS-485 Modbus
- Standard Fiberglass Enclosure with Clear Window; Optional Stainless-Steel Enclosure with Clear Window

OTIS INSTRUMENTS INC.

301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700
sales@otisinstruments.com

OI-7010-X-X-A4-32-X Product Specifications

Product Specifications	
Product Type	32 Channel Gas Monitor
Operating Voltage	12V to 35V DC
Current Draw	275 mA Maximum at 24 VDC
Power Supply	3.13A (75W), 85/264V AC to 24V DC (Optional)
Antenna Connection	External N-Female Radio Frequency (RF) Connector
Customizable Settings	Option to Disable Alarm Relays
Protection	Power Electromagnetic Interface (EMI) Filter 4-20 mA Surge Suppression RS-485 Surge Suppression
Display Screen	2 Graphical LCD Screens with 128x64 Resolution Transflective (Sunlight Readable) with LED Back Light
Interface	5 Push-Buttons (MENU, ADD, SUB, SCAN/HOLD and RESET/ESC)
T_{amb} Temperature Range	-40ºC to +70ºC (-40ºF to +158ºF)
WireFree (Digital), Wired (Analog) Input	Up to 32 WireFree Sensor Inputs, Up to 4 Can Be 4-20 mA Wired Analog Inputs
Relays	4 Dry-Contact Relays with 4 Amp Replaceable Fuses Individually Set Full Scale, Normally Open or Normally Closed, Latching or Non-Latching and Fault Terminal
Digital Output	RS-485 Modbus
Product Compatibility	All Otis GEN I and GEN II WireFree Products and Any Wired 4-20 mA Sensors
WireFree Radio Options	GEN II 900 MHz Radio GEN II 2.4 GHz Radio GEN I 900 MHz Radio
Networks	52 Networks (GEN II 900 MHz Radio) 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Enclosure Material	Fiberglass Enclosure with Clear Window (Available in Stainless-Steel)
Product Dimensions	10 in. L x 8 in. W x 6 in. H (Max. Dimensions with Attachments)
Total Weight	8.20 lbs.
Product Mounting	4 Mounting Feet, 6 in. W x 12-1/4 in. T (included) Maximum Mounting Bolt/Screw Size of 5/16 in. (8mm) Diameter
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-7010-[Power]-[Radio]-A4-32-[Enclosure] OI-7010-X-X-A4-32

© April 2019, Revision 3.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

OTIS INSTRUMENTS INC.

GEN^2 OTIS

OI-7032-X-X-A4 Hybrid Touchscreen Monitor

32 Channel Non-Explosion Proof Hyrid Monitor and Data Logger

The Otis Instruments OI-7032 Controller is a Hybrid Touchscreen Monitor that supports up to 32 WireFree Sensor inputs. Four channels can be setup for 4-20 mA wired input, making the controller compatible with both WireFree and wired sensors. Durable, flexible and customizable, this controller can operate in conjunction with either GEN I or GEN II sensors.



Product Features

- 32 Channel Hybrid Touchscreen Monitor - Supports WireFree and Up to 4 Wired Sensor
- 24 VDC Operating Voltage with an Optional AC Power Supply
- Operating Temperature Range of -20°C to +50°C
- 7-Inch Full Color Touchscreen
- Radio Options: GEN II 900 MHz, GEN II 2.4 GHz Standard; GEN I 900 MHz Radio Can Also Be Installed
- Adjustable Background Gas Setting
- 4 Individually Comfigurable Alarm Set-Points - Four Red ALARM Indiators; Four Dry-Contact Relays (4 Amps Maximum per Relay)
- Status Indicator for Fault Conditions - Amber Indicator for Systems Faults
- Output Options: Wet Contact DC Fault Terminal, Relay 4 Can Optionally Be Configured as a Fault Relay, RS-485 Modbus
- 2GB USB Drive Included for Data Logging
- 1-Year Limited Hardware Warranty
- Standard Fiberglass Enclosure with Clear Window

OTIS INSTRUMENTS INC.

301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700
sales@otisinstruments.com

GEN^2 OI-7032-X-X-A4 Hybrid Touchscreen Monitor

32 Channel Non-Explosion Proof Hybrid Monitor and Data Logger

OI-7032-X-X-A4 Product Specifications

Product Specifications	
Product Type	32 Channel Touchscreen Hybrid Gas Monitor
Operating Voltage	24 VDC
Current Draw	300 mA Maximum
Power Supply	6.25A (150W), 85/264V AC to 24V DC (Optional)
RF Connection	External N-Female Radio Frequency (RF) Connector
Customizable Settings	Option to Disable Alarm Relays
Protection	Power Electromagnetic Interface (EMI) Filter 4-20 mA Surge Suppression RS-485 Surge Suppression
Display Screen	800x480 Resolutions 7-Inch Resistive Touchscreen
Interface	Touchscreen
T_{amb} Temperature Range	-20ºC to +50ºC (-4ºF to +122ºC)
WireFree (Digital), Wired (Analog) Input	Up to 32 WireFree Digital Inputs, Up to 4 Can Be 4-20 mA Wired Analog Inputs
Relays	4 Dry-Contact Relays with 4 Amp Replaceable Fuses Individually Set Full Scale, Normally Open or Normally Closed, Latching or Non-Latching and Fault Terminal
Digital Output	RS-485 Modbus
Product Compatibility	All Otis GEN I and GEN II WireFree Products and Any Wired 4-20 mA Sensors
WireFree Radio Options	GEN II 900 MHz Radio GEN II 2.4 GHz Radio GEN I 900 MHz Radio
Networks	52 Networks (GEN II 900 MHz Radio) 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Enclosure Material	Fiberglass Enclosure with Clear Window
Product Dimensions	12 in. L x 10 in. W x 6 in. H (Max. Dimensions with Attachments)
Total Weight	12.15 lbs.
Product Mounting	4 Mounting Feet, 6 in. W x 12-1/4 in. T (included) Maximum Mounting Bolt/Screw Size of 5/16 in. (8mm) Diameter
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-7032-[Power]-[Radio]-A4 OI-7032-X-X-A4

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

OTIS INSTRUMENTS INC.

GENI²

OTIS

OI-7500-X-XP-X WireFree Monitor

32 Channel Explosion Proof WireFree Monitor

The Otis Instruments OI-7500 Controller is a 32-Channel Ambient Air Gas Monitor with 3 Relays that can monitor up to 32 WireFree gas detectors simultaneously. Magnetic switches allow for non-instrusive calibration while in the field as well as full system setting and diagnostics. Housed in an explosion-proof enclosure for the safe and close-proximity installation of the monitor within hazardous locations.



Product Features

- 32 Channel WireFree Monitor
- 12 to 35 VDC Operating Voltage with an Optional AC Power Supply
- Operating Temperature Range of -40°C to +70°C
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- Radio Options: 900 MHz Radio or 2.4 GHz Radio
- 3 Individually Configurable Alarm Set-Points: Three Front Panel ALARM LED Indicators (Red); Three Dry-Contact Relays (4 Amps Maximum per Relay)
- Output Options: Wet Contact DC Fault Terminal, Relay 3 Can Optionally Be Configured as a Fault Relay
- Aluminum Explosion-Proof Enclosure with Class I, Division 1, Groups B, C & D Certifications
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-7500-X-XP-X WireFree Monitor

32-Channel Explosion-Proof WireFree Monitor

OI-7500-X-XP-X Product Specifications

Product Specifications	
Product Type	32 Channel Gas Monitor
Power Type	WireFree Power
Operating Voltage	12V to 35V DC
Current Draw	275 mA Maximum
Power Supply	3.13A (75W), 85/264V AC to 24V DC (Optional)
RF Connection	External N-Female Radio Frequency (RF) Connector
Customizable Settings	3 Individually-Configurable Alarm Set-Points Per Channel Option to Disable Alarm Relays Latching and Non-Latching Relay Settings
Display Screen	128x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	3 Push-Buttons (MENU, ADD and SUB)
T_{amb} Temperature Range	-40ºC to +70ºC (-40ºF to +158ºF)
WireFree (Digital) Input	Up to 32 GEN II WireFree (Digital) Sensor Inputs
Relays	3 Dry-Contact Relays with 4 Amp Replaceable Fuses Fault Terminal
Protection	Power Electromagnetic Interference (EMI) Filter
WireFree Radio Options	GEN II 900 MHz Radio or GEN II 2.4 GHz Radio
Product Compatibility	GEN II WireFree Sensors (OI-6000, OI-6900, OI-6940) GEN II WireFree Transmitters (OI-5900, OI-5950)
Networks	52 Networks (GEN II 900 MHz Radio) 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Enclosure Material	Aluminum Device Enclosure
Product Dimensions	8 in. L x 8 in. W x 4 in. H (Max. Dimensions with Attachments)
Total Weight	12.8 lbs.
Hazardous Location Certifications and Approvals	Class I, Groups B, C & D Class II, Groups E, F & G
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-7500-[Power]-XP-[Radio] OI-7500-X-XP-X

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN I²

OTIS

OI-7530-X-X-A WireFree Relayer

32 Channel Explosion Proof WireFree Relayer

The Otis Instruments OI-7530 Relayer is a 32-Channel Gas Alarm System with 3 Relays that can monitor up to 32 WireFree Gas Detectors simultaneously. Magnetic switches allow for non-instrusive calibration while in the field as well as full system setting and diagnostics. Housed in an explosion-proof enclosure for the safe and close-proximity installtion of the monitor within hazardous locations.



Product Features

- 32 Channel WireFree Relayer
- 12 to 35 VDC Operating Voltage with an Optional AC Power Supply
- Operating Temperature Range of -40°C to +70°C
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- Radio Options: 900 MHz Radio or 2.4 GHz Radio
- 3 Individually Confugrable Alarm Set-Points: Three Front Panel ALARM LED Indicators (Red); Three Dry-Contact Relays (4 Amps Maximum per Relay)
- Output Options: Wet Contact DC Fault Terminal, Relay 3 Can Be Optionally Configured as a Fault Relay
- Aluminum Explosion-Proof Enclosure with Class I, Division 1, Groups B, C & D Certifications
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-7530-X-X-A Wirefree Relayer

32 Channel Explosion Proof WireFree Relayer

OI-7530-X-X-A Product Specifications

Product Specifications	
Product Type	32 Channel Gas Relayer
Power Type	WireFree Power
Operating Voltage	12V to 35V DC
Current Draw	275 mA Maximum
Power Supply	3.13A (75W), 85/264V AC to 24V DC (Optional)
RF Connection	External N-Female Radio Frequency (RF) Connector
Customizable Settings	3 Individually-Configurable Alarm Set-Points Per Channel Option to Disable Alarm Relays Latching and Non-Latching Relay Settings
Display Screen	128x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	3 Push-Buttons (MENU, ADD and SUB)
T_{amb} Temperature Range	-40ºC to +70ºC (-40ºF to +158ºF)
WireFree (Digital) Input	Up to 32 GEN II WireFree (Digital) Sensor Inputs
Relays	3 Dry-Contact Relays with 4 Amp Replaceable Fuses Fault Terminal
Protection	Power Electromagnetic Interference (EMI) Filter
WireFree Radio Options	GEN II 900 MHz Radio or GEN II 2.4 GHz Radio
Product Compatibility	GEN II WireFree Sensors (OI-6000, OI-6900, OI-6940) GEN II WireFree Transmitters (OI-5900, OI-5950)
Networks	52 Networks (GEN II 900 MHz Radio) 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Enclosure Material	Aluminum Device Enclosure
Product Dimensions	8 in. L x 8 in. W x 4 in. H (Max. Dimensions with Attachments)
Total Weight	12.8 lbs.
Hazardous Location Certifications and Approvals	Class I, Groups B, C & D Class II, Groups E, F & G
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-7530-[Radio]-[Power Supply]-A OI-7530-X-X-A

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN II OTIS

OI-7530-X-X-I WireFree Relayer

32 Channel Non-Explosion Proof WireFree Relayer

The Otis Instruments OI-7530 Relayer is a 32-Channel Gas Alamr System with 3 Relays that can monitor up to 32 GEN II WireFree Gas Detectors simultaneously. Three relays can be configured to activate up to the full scale reading reported and set to be either latching or non-latching. Housed in a non-explosion proof enclosure allows for quick, easy installation while maintaining a high level of ruggedness for safety.



Product Features

- 32 Channel GEN II WireFree Relayer
- 12 to 35 VDC Operating Voltage with an Optional AC Power Supply
- Operating Temperature Range of -40°C to +70°C
- Graphical LCD with LED Backlight
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- Radio Options: GEN II 900 MHz or GEN II 2.4 GHz Radio
- 3 Individually Configurable Alarm Set-Points: Three Front Panel ALARM LED Indicators (Red); Three Dry Contact Relays (4 Amps Maximum per Relay)
- Output Options: Wet Contact DC Fault Terminal, Relay 3 Can Optionally Be Configured as a Fault Relay
- Fiberglass Non-Explosion Proof Enclosure with Clear Lid
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700
sales@otisinstruments.com

OI-7530-X-X-I WireFree Relayer

32 Channel Non-Explosion Proof WireFree Relayer

OI-7530-X-X-I Product Specifications

Product Specifications	
Product Type	32 Channel Gas Relayer
Power Type	WireFree Power
Operating Voltage	12V to 35V DC
Current Draw	275 mA Maximum
Power Supply	3.13A (75W), 85/264V AC to 24V DC (Optional)
RF Connection	External N-Female Radio Frequency (RF) Connector
Customizable Settings	3 Individually-Configurable Alarm Set-Points Per Channel Option to Disable Alarm Relays Latching and Non-Latching Relay Settings
Display Screen	128x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	3 Push-Buttons (MENU, ADD and SUB)
T_{amb} Temperature Range	-40ºC to +70ºC (-40ºF to +158ºF)
WireFree (Digital) Input	Up to 32 GEN II WireFree (Digital) Sensor Inputs
Relays	3 Dry-Contact Relays with 4 Amp Replaceable Fuses Fault Terminal
Protection	Power Electromagnetic Interference (EMI) Filter
WireFree Radio Options	GEN II 900 MHz Radio or GEN II 2.4 GHz Radio
Product Compatibility	GEN II WireFree Sensors (OI-6000, OI-6900, OI-6940) GEN II WireFree Transmitters (OI-5900, OI-5950)
Networks	52 Networks (GEN II 900 MHz Radio) 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Enclosure Material	Fiberglass Device Enclosure with Clear Lid
Product Dimensions	9 in. L x 9 in. W x 5 in. H (Max. Dimensions with Attachments)
Total Weight	6.8 lbs.
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-7530-[Radio]-[Power Supply]-I OI-7530-X-X-I

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-7543-6-X-X-I WireFree Monitor

6 Channel WireFree Gas Monitor

The Otis Instruments OI-7543 Six Channel Gas Monitor with 3 Dry Contact Relays can monitor up to 6 individual GEN II WreFree Gas Detectors and Transmitters. RS-485 Modbus output allows for data communication to a PLC or other system monitoring device. Available with an optional WirelessHART® module that allows the received sensor readings to be viewable on a WirelessHART® network.

WirelessHART® Certified



Product Features

- 6 Channel Monitor - Can Monitor Up to 6 GEN II WireFree Sensors
- 24 VDC Operating Voltage with an Optional AC Power Supply
- Operating Temperature Range of -40°C to +70°C
- Graphical LCD with LED Backlight
- Radio Options: GEN II 900 MHz or GEN II 2.4 GHz Radio Standard
- 3 Individually Configurable Alarm Set-Points: Three Red LED ALARM Indicators; Three Dry-Contact Relays (4 Amps Maximum per Relay)
- Status Indicator for Fault Conditions: Amber LED Indicator for System Faults
- Output Options: Wet Contact DC Fault Terminal, Relay 3 Can Optionally Be Configured as a Fault Relay, RS-485 Modbus or Optional WirelessHART®
- Standard Fiberglass Enclosure with Clear Lid
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700
sales@otisinstruments.com

OI-7543-6-X-X-I Product Specifications

Product Specifications	
Product Type	Gas Monitor
Power Type	Wired Power
Operating Voltage	12V to 35V DC
Current Draw	275 mA Maximum
Power Supply	3.13A (75W), 85/264V AC to 24V DC (Optional)
Protection	Power Electromagnetic Interference (EMI) Filter
Product Compatibility	Any Otis GEN II WireFree Sensor
Display Screen	128x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Back Light
Interface	3 Push-Buttons (MENU, ADD and SUB) 3 Magnetic Non-Instrusive Switches
T_{amb} Temperature Range	-40ºC to +70ºC (-40ºF to +158ºF)
WireFree (Digital) Input	Up to 6 GEN II WireFree Sensor Inputs
Output	RS-485 Modbus Optional WirelessHART® Module (Disables RS-485 Modbus Output)
Relays	3 Dry-Contact Relays with 4 Amp Replaceable Fuses Wet Contact Fault Terminal 3 Individually-Configurable Alarm Set-Points per Channel Latching and Non-Latching Relay Settings per Channel
WireFree Radio Options	GEN II 900 MHz Radio GEN II 2.4 GHz Radio
Networks	52 Networks (GEN II 900 MHz Radio) 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Enclosure Material	Fiberglass Enclosure with Clear Window
Product Dimensions	8 in. L x 8 in. W x 4 in. H (Max. Dimensions with Attachments)
Total Weight	12.8 lbs.
Hardware Warranty	1-Year, Limited
Optional WirelessHART® Kit	OI-HART-KIT - WirelesHART® Module with 2.4 GHz External Antenna
Part Number Formula	OI-7543-6-[Radio]-[Power]-[Enclosure] OI-7543-6-X-X-I

OTIS INSTRUMENTS INC.

© April 2019, Revision 2.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-9850-X-X-A4-X WireFree Interface

255 Channel Non-Explosion Proof WireFree Interface

The Otis Instruments OI-9850 Interface WireFree Receiver is capable of monitoring all 255 WireFree addresses and converting the signals to a RS-232 or RS-485 Modbus output. Designed to be used in conjunction with an existing PLC, computer or SCADA system currently in place. Other digital outputs include Ethernet-to-Website and USB Virtual COM PORT. If analog output is required, an optional Analog Card is available and provides a 4-20mA output for up to 32 WireFree sensors.



Product Features

- 255 Channel WireFree Interface - All Addresses on Configured Network
- 12 to 35 VDC Operating Voltage with an Optional AC Power Supply
- Operating Temperature Range of -40°C to +70°C
- Graphical LCD with LED Backlight
- 4 Push-Button Interface (ADD, MENU, SUB and RESET/ESC)
- GEN II 900 MHz or GEN II 2.4 GHz Radio Standard; GEN I 900 MHz Radio Can Also Be Installed
- Individually Configurable Low and High Alarm Set-Points per Channel
- Status LEDs for Power and Fault - Multi-Color Status Light; Amber Fault LED for Indicating System Faults
- Output Options: Wet Contact DC Fault Terminal; USB Virtual COM Port; RS-232 or RS-485 Modbus; Website for Displaying Readings, Alarms, Faults and Sensor Information; Optional 4-20 mA Output of 8, 16, 24 or 32 Channels
- Standard Fiberglass Enclosure with Clear Window
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-9850 WireFree Interface

255 Channel Non-Explosion Proof WireFree Interface

OI-9850-X-X-A4-X Product Specifications

Product Specifications	
Product Type	WireFree Interface
Power Type	Wired Power
Operating Voltage	12V to 35V DC
Current Draw	800 mA Maximum at 24 VDC
Power Supply	3.13A (75W), 85/264V AC to 24V DC (Optional)
RF Connection	External N-Female Radio Frequency (RF) Connector
Protection	Power Electromagnetic Interface (EMI) Filter 4-20 mA Surge Suppression RS-485 and RS-232 Surge Suppression
Display Screen	128x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	4 Push-Buttons (MENU, ADD, SUB and RESET/ESC)
T_{amb} Temperature Range	-40ºC to +70ºC (-40ºF to +158ºF)
WireFree (Digital) Input	Up to 255 WireFree (Digital) Sensor Inputs
Wired (Analog) Output	Up to 32 Wired 4-20 mA (3-Wire) Analog Sensor Outputs (Optional or Sold Separately) Fault Terminal
WireFree (Digital) Output	RS-232 Modbus and RS-485 Modbus, Ethernet-to-Website, and Virutal COM Port Over USB
Product Compatibility	Any Otis WireFree Sensor or Transmitter
WireFree Radio Options	GEN II 900 MHz Radio GEN II 2.4 GHz Radio GEN I 900 MHz Radio
Networks	52 Networks (GEN II 900 MHz Radio) 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Enclosure Material	Fiberglass Enclosure with Clear Window
Product Dimensions	10 in. L x 8 in. W x 6 in. H (Max. Dimensions with Attachments)
Total Weight	8.90 lbs.
Product Mounting	4 Mounting Feet, 6 in. W x 12-1/4 in. T (included) Maximum Mounting Bolt/Screw Size of 5/16 in. (8mm) Diameter
Product Add-On Hardware	OI-4200-PCA, 8-Channel 4-20 mA Output Add-On Board Capacity: 4 Maximum per OI-9850
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-9850-[Power]-[Radio]-[Antenna]-[Channels] OI-9850-X-X-X-X

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-9100-X WireFree Viewer

Handheld Signal Strength Meter

The Otis Instruments WireFree OI-9100 Series Handheld Signal-Strength Meter is engineered to show the status of any GEN II WireFree Gas Detector, Transmitter or Repeater that is within range. Featuring a four-line scrollable display, the OI-9100 will show the radio address, gas level reading, RF signal strength, time since last message, sensor type, gas type and the remaining battery voltage, if applicable, of each detector within range.



Product Features

- Signal-Strength Meter
- Rechargable Lithium-Ion Battery - Up to 16 Hours of Runtime per Charge
- Operating Temperature Range of 0ºC to +50ºC
- 4x20 Character LCD Display
- Push-Button Knob Interface - Rotate Knob to Scroll Sensors; Press to Show Additional Information
- Radio Options: 900 MHz Radio or 2.4 GHz Radio
- Alarm LED - Press and Hold Knob to Disable Alarm Mode
- Aluminum Enclosure
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

301 S. Texas Avenue
Bryan, Texas 77803
P: 979-776-7700
sales@otisinstruments.com

GEN II

OI-9100-X WireFree Viewer

Handheld Signal-Strength Meter

OI-9100-X Product Specifications

Product Specifications	
Product Type	Signal-Strength Meter
Power Type	Battery-Powered
Operating Voltage	(3.7 V) Lithium Ion Rechargeable Batteries
Battery Life	Up to 16 Hours Continuous Use Battery Life per Charge
Display Screen	4x20 Character LCD Screen
Interface	Push-Button Knob
Customizable Setting Alarm Indicator	Option to Disable Red Alarm LED
T_{amb} Temperature Range	0°C to +50°C (32°F to +122°F)
WireFree (Digital) Input	Up to 255 GEN II WireFree Gas Detectors
Product Compatibility	GEN II WireFree Sensors (OI-6000, OI-6900, OI-6940) GEN II WireFree Transmitters (OI-5900, OI-5950) GEN II WireFree Repeater (OI-9900)
WireFree Radio Options	GEN II 900 MHz Radio GEN II 2.4 GHz Radio
Network Selectors	52 Networks (GEN II 900 MHz Radio) 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Enclosure Material	Aluminum Device Enclosure
Product Dimensions	4.875 in. L x 4 in. W x 1.188 in. H (Max. Dimensions w/ Attachments)
Total Weight	1.15 lbs.
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-9100-[Radio] OI-9100-X

OTIS INSTRUMENTS INC.

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-9900-X WireFree Repeater

Explosion Proof WireFree Signal Repeater

The Otis Instruments OI-9900 WireFree Repeater is a device that receives transmissions from a WireFree sensor or switcher and repeats the transmission to it's corresponding monitor or controller within the WireFree network. Enables greater distances and reliable communication between the gas detector and the gas monitor.



Product Features

- 255 Channel WireFree Repeater - All Addresses on Configured Network
- 12 to 35 VDC Operating Voltage
- Operating Temperature Range of -40ºC to +60ºC
- 3 Push-Button Interface (ADD, MENU, SUB)
- Radio Options: GEN II 900 MHz or GEN II 2.4 GHz Radio Standard
- Individually Configurable Low and High ALarm Set-Points per Channel
- Graphical LCD with LED Back Light
- Explosion Proof Aluminum Enclosure with Class I, Division 1, Groups C & D Certifications
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-9900-X WireFree Repeater

Explosion Proof WireFree Signal Repeater

OI-9900-X Product Specifications

Product Specifications	
Product Type	Signal Repeater/Extender
Power Type	Wired Power
Operating Voltage	12V to 35V DC
Current Draw	150 mA Maximum at 24VDC
RF Connection	2 External N-Female Radio Frequency (RF) Connectors
Protection	Power Electromagnetic Interference (EMI) Filter
Display Screen	102x64 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Back Light
Interface	3 Magnetic Push-Buttons (MENU, ADD and SUB)
T_{amb} Temperature Range	-40ºC to +60ºC (-40ºF to +140ºF)
Product Compatibility	All Otis GEN II WireFree Sensors
WireFree Radio Options	Two GEN II 900 MHz (200 mW) Radios Two GEN II 2.4 GHz (125 mW) Radios
Networks	52 Networks (GEN II 900 MHz Radio) 78 Networks (GEN II 2.4 GHz Radio) 255 Addresses per Network
Enclosure Material	Otis Blue Aluminum Enclosure
Product Dimensions	5.42 in. L x 6.03 in. W x 12.16 in. H (Max. Dimensions with Attachments)
Total Weight	7.5 lbs.
Hazardous Location Certifications and Approvals	Class I, Division 1, Groups C & D Ex db IIB Gb Class I, Zone 1, AEx db IIB Gb Tamb -40ºC to +60ºC
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-9900-[Radio]-O OI-9900-X-O

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

OTIS INSTRUMENTS INC.

WIRED 4-20mA AND RS-485 MONITORS



GEN^2 OTIS

OI-7420-X-2 Wired Monitor

2 Channel Non-Explosion Proof Wired Monitor

The Otis Instruments OI-7420 ProSafe 4x2 Controller is a wired monitor that supports up to 2 individual 4-20 mA wired sensor assemblies. Four relays can be individually set up to the full scale of the channel and may be set to either latching or non-latching. Complies with any wired device with a 4-20 mA output, allowing more than just gas detection to be displayed and monitored for a safer working environment.



Product Features

- 2 Channel Wired Monitor - Supports Any 4-20 mA Wired Sensor
- 12 to 35 VDC Operating Voltage with an Optional AC Supply
- Operating Temperature Range of -40°C to +70°C
- Graphical LCD with LED Backlight
- 4 Push-Button Interface (ADD, MENU, SUB and RESET/ESC)
- 4 Individually Configuravble Alarm Set-Points: Four Front Panel ALARM LED Indicators (Red); Four Dry-Contact Relays (4 Amp Maximum per Relay)
- Status LEDs for Power and Fault: Multi-Color Status Light; Amber Fault LED for Indicating System Faults
- Output Options: Wet Contact DC Fault Terminal, Relay 4 Can Optionally Be Configured as a Fault Relay, RS-485 Modbus
- Standard Fiberglass Enclosure with Clear Lid
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-7420-X-2 Product Specifications

Product Specifications	
Product Type	2 Channel Wired Gas Monitor
Power Type	Wired Power
Operating Voltage	12V to 35V DC
Current Draw	225 mA Maximum
Power Supply	3.125A (150W), 85/264V AC to 24V DC (Optional)
Output (Digital)	RS-485 Modbus
Protection	Power Electromagnetic Interface (EMI) Filter 4-20 mA Surge Suppression RS-485 and RS-232 Surge Suppression
Display Screen	160x104 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	4 Push-Buttons (MENU, ADD, SUB and RESET/ESC)
T_{amb} Temperature Range	-20ºC to +70ºC (-4ºF to +158ºF)
Wired (Analog) Input	Up to 2 Wired 4-20mA (Analog) Inputs
Product Compatibility	Any Otis Wired Sensor (OI-617, OI-675, OI-6000, OI-6000K) 3rd Party Wired (Analog) Sensors
Relays	4 Dry-Contact Relays with 4 Amp Replaceable Fuses Fault Terminal Option to Disable Alarm Relays Latching and Non-Latching Relay Settings Individual Set Per Channel
Enclosure Material	Fiberglass Enclosure with Clear Window
Product Dimensions	8 in. L x 8 in. W x 4 in. H (Max. Dimensions with Attachments)
Total Weight	8.15 lbs.
Product Mounting	4 Mounting Feet, 6 in. W x 12-1/4 in. T (included) Maximum Mounting Bolt/Screw Size of 5/16 in. (8mm) Diameter
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-7420-[Power]-2 OI-7420-X-2

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

OTIS INSTRUMENTS INC.

GEN^2 OTIS

OI-7440-X-4 Wired Monitor

4 Channel Non-Explosion Proof Wired Monitor

The Otis Instruments OI-7440 ProSafe 4x4 Controller is a wired monitor that supports up to four individual 4-20 mA wired sensor assemblies. Four relays can be individually set up to the full scale of the channel and may be set to either latching or non-latching. Complies with any wired device with a 4-20 mA output, allowing more than just gas detection to be dsiplayed and monitored, which will lead to a safer working environment.



Product Features

- 4 Channel Wired Monitor - Supports Any 4-20 mA Wired Sensor
- 12 to 35 VDC Operating Voltage with an Optional AC Power Supply
- Operating Temperature Range of -40°C to +70°C
- Graphical LCD with LED Backlight
- 5 Push-Button Interface (ADD, MENU, SUB, SCAN/HOLD and RESET/ESC)
- 4 Individually Configurable Alarm Set-Points: Four Front Panel ALARM LED Indicators (Red); Four Dry-Contact Relays (4 Amps Maximum per Relay)
- Status LEDs for Power and Fault: Multi-Color Status Light; Amber Fault LED for Indicating System Faults
- Outout Options: Wet Contact DC Fault Terminal, Relay 4 Can Optionally Be Configured as a Fault Relay, RS-485 Modbus
- Standard Fiberglass Enclosure with Clear Window
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-7440-X-4 Product Specifications

Product Specifications	
Product Type	4 Channel Wired Gas Monitor
Power Type	Wired Power
Operating Voltage	12V to 35V DC
Current Draw	275 mA Maximum
Power Supply	3.13A (75W), 85/264V AC to 24V DC (Optional)
Output	RS-485 Modbus
Protection	Power Electromagnetic Interface (EMI) Filter 4-20 mA Surge Suppression RS-485 and RS-232 Surge Suppression
Display Screen	160x104 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Backlight
Interface	5 Push-Buttons (MENU, ADD, SUB, SCAN/HOLD and RESET/ESC)
T_{amb} Temperature Range	-20ºC to +70ºC (-4ºF to +158ºF)
Customizable Settings	Option to Disable Alarm Relays/Channel Individual Alarm Set Points Latching and Non-Latching Relay Settings
Wired (Analog) Input	Up to 4 Wired 4-20 mA (Analog) Inputs
Relays	4 Dry-Contact Relays with 4 Amp Replaceable Fuses Fault Terminal
Wired (Analog) Output	RS-485 Mobus
Enclosure Material	Fiberglass Enclosure with Clear Window
Product Dimensions	10 in. L x 8 in. W x 6 in. H (Max. Dimensions with Attachments)
Total Weight	8.5 lbs.
Product Mounting	4 Mounting Feet, 6 in. W x 12-1/4 in. T (included) Maximum Mounting Bolt/Screw Size of 5/16 in. (8mm) Diameter
Product Compatibility	Any Otis Wired Sensor (OI-617, OI-675, OI-6000, OI-6000K) 3rd Party 4-20 mA Wired (Analog) Sensors
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-7440-[Power]-4 OI-7440-X-4

OTIS INSTRUMENTS INC.

© May 2019, Revision 3.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2

OTIS

OI-7480-X-X Wired Monitor

8 or 12 Channel Non-Explosion Proof Wired Monitor

The Otis Instruments OI-7480 ProSafe 4x8 Controller is a versatile wired monitor. The OI-7480 comes standard with DC power and can be configured with AC power supply. Four relays can be individually set up to the full scale of the channel and may be set up to either latching or non-latching. Supports up to 8 or up to 12 individual 4-20 mA wired sensor assemblies that can monitor and display a variety of toxic gases, leading to safer working environment.



Product Features

- 8 or 12 Channel Wired Monitor That Supports Any 4-20 mA Wired Sensor
- 12 to 35 VDC Operating Voltage with an Optional AC Power Supply
- Operating Temperature Range of -40°C to +70°C
- Graphical LCD with LED Backlight
- 5 Push-Button Interface (ADD, MENU, SUB, SCAN/HOLD and RESET/ESC)
- 4 Individually Configurable Alarm Set-Points - Four Front Panel ALARM LED Indicators (Red); Four Dry-Contact Relays (4 Amps Maximum per Relay)
- Status LEDs for Power and Fault - Multi-Color Status Light; Amber Fault LED for Indicarting System Faults
- Output Options: Wet Contact DC Fault Terminal, Relay 4 Can Optionally Be Configured as a Fault Relay, RS-485 Modbus
- Standard Fiberglass Enclosure with Clear Window
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-7480-X-X Wired Monitor Product Specifications

Product Specifications	
Product Type	8 or 12 Channel Wired Gas Monitor
Power Type	Wired Power
Operating Voltage	12V to 35V DC
Current Draw	300 mA Maximum (8-Channel) 325 mA Maximum (12-Channel)
Protection	Power Electromagnetic Interface (EMI) Filter 4-20 mA Surge Suppression RS-485 and RS-232 Surge Suppression
Display Screen	160x104 Resolution Graphical LCD Screen
Interface	5 Push-Buttons (MENU, ADD, SUB, SCAN/HOLD and RESET/ESC)
T_{amb} Temperature Range	-20ºC to +70ºC (-4ºF to +158ºF)
Wired (Analog) Input	Up to 8 Wired 4-20 mA (Analog) Inputs (8-Channel)
Relays	4 Dry-Contact Relays with 4 Amp Replaceable Fuses Fault Terminal Option to Disable Alarm Relays Latching and Non-Latching Relay Settings Individual Set Per Channel
Product Compatibility	Any Otis Wired Sensor (OI-617, OI-6000, OI-6000K 3rd Party Wired (Analog) Sensors
Digital (Output)	RS-485 Modbus
Enclosure Material	Fiberglass Enclosure with Clear Window
Product Mounting	4 Mounting Feet, 6 in. W x 12-1/4 in. T (included) Maximum Mounting Bolt/Screw Size of 5/16 in. (8mm) Diameter
Total Weight	12.15 lbs.
Product Dimensions	12 in. L x 10 in. W x 6 in. H (Max. Dimensions with Attachments)
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-7480-[Power]-[Channels] OI-7480-X-X

OTIS INSTRUMENTS INC.

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

GEN^2 OTIS

OI-7432-X-32 Modbus Monitor

32 Channel Non-Explosion Proof Wired Modbus Monitor

The Otis Instruments OI-7432 Modbus ProSafe 4x32 is a 32-Channel Gas Controller that can communicate with up to 32 OI-6000 Wired Gas Sensors through R485-Modbus communication. Four relays can be individually set up to the full scale gas reading and may be latching or non-latching. Used in conjunction with the OI-6000 Sensor Assembly allows for a quck and easy installation, providing a safer working environment.



Product Features

- 32 Channel Wired Modbus Monitor
- 12 to 35 VDC Operating Voltage with an Optional AC Power Supply
- Operating Temperature Range of -40°C to +70°C
- Graphical LCD with LED Backlight
- 5 Push-Button Interface (ADD, MENU, SUB, SCAN/HOLD and RESET/ESC)
- 4 Individually Configurable Alarm Set-Points: Four Front Panel ALARM LED Indicators (Red); Four Dry-Contact Relays (4 Amps Maximum per Relay)
- Status LEDs for Power and Fault: Multi-Color Status Light; Amber Fault LED for Indicating System Faults
- Output Options: Wet Contact Fault Terminal, Relay 4 Can Optionally Be Configured as a Fault Relay, RS-485 Modbus
- Standard Fiberglass Enclosure with Clear Window
- 1-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-7432-X-32 Modbus Monitor

32 Channel Non-Explosion Proof Wired Modbus Monitor

OI-7432-X-32 Product Specifications

Product Specifications	
Product Type	32 Channel Wired Modbus Gas Monitor
Power Type	Wired Power
Operating Voltage	12V to 35V DC
Current Draw	275 mA Maximum
Power Supply	6.25A (150W), 85/264V AC to 24V DC (Optional)
Interface	5 Push-Buttons (MENU, ADD, SUB, SCAN/HOLD and RESET/ESC)
Product Compatibility	GEN II Wired Sensors (OI-6000, OI-6000K)
Display Screen	160x104 Resolution Graphical LCD Screen Transflective (Sunlight Readable) with LED Back Light
Product Mounting	4 Mounting Feet, 6 in. W x 12-1/4 in. T (Included) Maximum Mounting Bolt/Screw Size of 5/16 in. (8mm) Diameter
T_{amb} Temperature Range	-20ºC to +70ºC (-4ºF to +158ºF)
WireFree (Digital) Input	Up to 32 Individual OI-6000 Series Wired Gas Detectors Using RS-485 Modbus
Relays	4 Dry-Contact Relays with 4 Amp Replaceable Fuses Fault Terminal Option to Disable Alarm Relays Latching and Non-Latching Relay Settings
Enclosure Material	Non-Explosion Proof Fiberglass Enclosure with Clear Window
Product Dimensions	10 in. L x 8 in. W x 6 in. H (Max. Dimensions with Attachments)
Total Weight	8.5 lbs.
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-7432-[Power]-32 OI-7432-X-32

© April 2019, Revision 2.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.

TOCSIN³ By OTIS

OI-315-X Single Gas Personal Monitor

Single Gas Portable Monitor

The Otis Instruments OI-315 TOCSIN3 Personal Monitor is a versatile personal safety device designed to detect the presence of toxic gases in ambient air. When activated, TOCSIN3 detects the presence of O2, CO, SO2, H2, H2S or NH3, and alerts the user with visual, vibrating and audible alarms. Features a belt clip that allows it to be conveniently worn on personnel in the field at all times.

Gas Type	Range	T_{90}
O2	0-30%	< 15 Secs.
CO	0-500 ppm	< 30 Secs.
SO2	0-20 ppm	< 35 Secs.
H2	0-1000 ppm	< 75 Secs.
H2S	0-100 ppm	< 30 Secs.
NH3	0-100 ppm	< 60 Secs.



Product Features

- Polycarbonate Enclosure with Rubber Covering for Shock Protection
- IP67 Water and Dust Proof Rating
- High Performance Audible, Visual and Vibration Alarms
- LCD Display with an LED Back Light
- Automatic System Diagnostics
- Internal Data-Loggin for up to 20 Events
- ATEX Intrinsic Safety Certification
- Adjustable Alarm Set-Points
- Battery Life: 1.2 Years or 8 Hours of Use per Day
- User-Replaceable Sensor Element and Battery
- Operating Humidity Range of 5% to 95% RH (Non-Condensing)
- Battery Warranty is 90 Days from Product Ship Date
- 2-Year Limited Hardware Warranty

OTIS INSTRUMENTS INC.

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

sales@otisinstruments.com

OI-315-X Single Gas Personal Monitor

Single Gas Portable Monitor

OI-315-X Product Specifications

Product Specifications	
Sensor Type	Electrochemical
Operating Power	CR2 Lithium Battery (3V)
Battery Life	1.2 Years or 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
Programmable Set Mode	Alarm Value (1, 2 Alarm) Time Set Calibration Density Setting
Alarm Display	Visual: Alarm and Status Icon, Trouble Red LED Audible: Buzzer
Measuring Value Display	3-Digit LCD Display
T_{amb} Temperature Range	-20ºC to +50ºC (-4ºF to 122ºF)
Alarm Level Set	Programmable with Detection Range
Internal Data Log	Event Log: 20 Data
Hazardous Location Certification and Approvals	Ex ia IIC T4 IP67 (KGS, ATEX)
Mounting Type	Belt Clip
Operating Humidity	5% to 95% RH (Non-Condensing)
Enclosure Material	Rubber Polycarbonate/TPE
LCD Size	27 W x 17.5 H mm (1.06 in. W x 3.58 in. H x 1.65 in. D)
Product Dimensions	54 W x 91 H x 42 D mm (2.13 in. W x 3.58 in. H x 1.65 in. D)
Weight	120 g (Including Battery)
Hardware Warranty	2-Year, Limited
Part Number Formula	OI-315-[Gas] OI-315-X

© April 2019, Revision 1.1, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.



OTIS INSTRUMENTS INC.

301 SOUTH TEXAS AVENUE
BRYAN, TEXAS 77803

PHONE 979.776.7700
FAX 979.776.7719

REV. 042319