

# OI-5900-X-X-O Wired Powered State Transmitter

# Explosion Proof 4-20 mA State Transmitter

The Otis Instruments OI-5900 is a WireFree Explosion Proof 4-20 mA Transmitter. The OI-5900 makes any sensor into a WireFree sensor, including gas, flame, tank level and many other sensor types. Operates from 12 to 35 Volts DC and has a full range scale of up to 30,000. Magnetic switches allow for non-intrusive calibration while in the field as well as full system settings and diagnostics.



### **Product Features**

- Signal Transmitter
- WireFree (Wireless) Communication
- Wired Powered
- Operating Voltage: 12V to 35V
- External N-Female Radio Frequency (RF) Connector
- 3 Push-Button Interface (ADD, MENU, SUB) with 3 Corresponding Magnetic, Non-Intrusive Switches
- 102x64 Resolution Graphical LCD Screen;Transflective (Sunlight Readable) with LED Backlight
- Transmits a 4-20 mA Signal or Scaled Value Up to 30,000
- Connectivity With Any 4-20 mA Sensor

- Radio Options: 900 MHz Radio (52 Networks) or 2.4 GHz Radio (78 Networks)
- Aluminum Device Enclosure
- QPS Product Certified
- 1-Year Limited Hardware Warranty

INSTRUMENTS INC.

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



## Explosion Proof Wired Powered Ambient Air 4-20 mA State Transmitter

#### **OI-5900-X-X-O Product Specifications**

Product Specifications			
Product Type	4-20 mA Signal Transmitter		
Power Type	Wired Powered		
Operating Voltage	12V to 35V DC		
Current Draw	<175 mA Maximum (Varies w/ Sensor Connectivity)		
RF Connection	External N-Female Radio Frequency (RF) Connector		
Protection	Power Electromagnetic Interference (EMI) Filter		
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	Transmits a 4-20mA signal or scale up to 30,000 Adjustable Communication Transmission on Change Setting		
T <sub>amb</sub> Temperature Range	-40°C to +54°C		
Wired (Analog) Input	1 (Maximum) 4-20 mA Wired Sensor		
Product Compatibility	GEN II Wired Sensors (OI-675, OI-6000, OI-6000K) GEN II WireFree Meter (OI-9100), GEN II WireFree Repeater (OI-9900) GEN II WireFree Monitors (OI-7010, OI-7032, OI-7500, OI-7543, OI-9850) 3rd Party Wired (Analog) Sensors		
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		
Enclosure Material	Aluminum Device Enclosure		
Product Dimensions	5.42 in. L x 6.03 in. W x 12.16 in. H (Max. Dimensions w/ Attachments)		
Total Weight	4.8 lbs.		
Product Certified	QPS Product Certified		
Hazardous Location Certifications and Approvals	ATEXModels w/ Radio Option $\langle \widehat{Ex} \rangle$ II 2 (1) GEx db mb ia [ia Ga] IIB T6 GbTa= -40°C to +54°CIECExModels w/ Antenna FittingEx db mb ia [ia Ga] IIB T6 Gb-40°C $\leq$ Ta $\leq$ +54°C	Models w/out Radio Option $\overleftarrow{\text{Ex}}$ II 2 G Ex db mb IIB T6 Gb Ta= -40°C to +54°C Models w/out Antenna Fitting Ex db mb IIB T6 Gb -40°C $\leq$ Ta $\leq$ +54°C	CSA Class I, Division 1, Groups C & D Ex d IIB T6 Gb Class I, Zone 1, AEx db IIB T6 Gb Tamb -40°C to +54°C
Hardware Warranty	1-Year, Limited		
Part Number Formula	OI-5900-[Radio]-[X]-[Enclosure] OI-5900-X-X-O		

© August 2020, Revision 1.2, Otis Instruments, Inc. All rights reserved. All information presented in this document is subject to change without prior notice.