

# GEN<sup>2</sup>

# 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



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# 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)
Tamb Temperature Range	-40°C to +70°C (-40°F to +158°F)
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 Virtual 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

