# OI-9850-A4-WireFree Interface

## 255 Channel Non-Explosion Proof WireFree Interface

The Otis Instruments OI-9850 Interface WireFree Receiver is capable of monitoring up to 255 WireFree detectors and converting the signals to an RS-232 or RS-485 Modbus output. The OI-9850 is designed to be used in conjunction with an existing PLC, computer, or SCADA system currently in place. Other digital outputs such as Ethernet-to-website and Virtual COM Port over USB are available. If an analog output is required, the OI-9850 has an optional analog card that is available and can provide a 4-20mA output for up to 32 WireFree sensors.

$GEN^2$

WireFree™
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## OI-9850 Product Specifications

| | |
|---|---|
| Product Type | WireFree Interface |
| Power Type | Wired Power |
| Operating Voltage | 12V to 35V DC or 120 AC |
| 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 Interference (EMI) Filter<br>4-20 mA Surge Suppression<br>RS-485 and RS-232 Surge Suppression |
| Display Screen | 128x64 Resolution Graphical LCD Screen<br>Transflective (Sunlight Readable) with LED Backlight |
| Interface | 4 Push-Buttons (MENU, ADD, SUB, and RESET/ESC) |
| $T_{amb}$ 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)<br>Fault Terminal |
| Wired (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<br>GEN II 2.4 GHz Radio |
| Networks | 52 Networks (GEN II 900 MHz Radio)<br>78 Networks (GEN II 2.4 GHz Radio)<br>255 Addresses per Network |
| Enclosure Material | Fiberglass Enclosure w/ Clear Window |
| Product Dimensions | 10 in. L x 8 in. W x 6 in. H (Max. Dimensions w/ Attachments) |
| Total Weight | 8.90 lbs. |
| Product Mounting | 4 Mounting Feet, 6 in. W x 12-1/4 in. T (Included)<br>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<br>Capacity:  4 Maximum per OI-9850 |
| Hardware Warranty | 1-Year, Limited |
| Part Number Formula | OI-9850-[Power]-[Radio]-[Antenna]-[Channels]<br>OI-9850-X-X-X-X |