

GEN²

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
- NEMA 4X Standard Fiberglass Enclosure with Clear Window
- 1-Year Limited Hardware Warranty



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

| Product Specifications | |
|------------------------------------|---|
| Product Type | WireFree Interface |
| Power Type | Wired Powered |
| Operating Voltage | 12V to 35V DC or 120V 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 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 | -40°C to +70°C |
| 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 | NEMA 4X 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 |