

## OI-9850-A4 WireFree Interface

The Otis Instruments OI-9850 Interface WireFree Receiver is a high-capacity monitoring solution designed to interface with up to 255 WireFree detectors, offering seamless integration with existing industrial systems. The OI-9850 effectively converts wireless sensor data into standard industrial communication protocols, enhancing safety monitoring and system automation.

### *Key Features:*

- **High-Capacity Monitoring:** Supports up to 255 WireFree detectors, providing extensive coverage for large-scale safety systems.
- **Flexible Communication Outputs:** Converts sensor data to:
  - \* RS-232 or RS-485 Modbus output, ensuring compatibility with various control systems.
  - \* Ethernet-to-website for remote access and monitoring.
  - \* Virtual COM Port over USB, allowing easy data integration with computers and digital systems.
- **Seamless System Integration:** Designed to work with existing:
  - \* Programmable Logic Controllers (PLC)
  - \* Computers
  - \* Supervisory Control and Data Acquisition (SCADA) systems
- **Optional Analog Output:** Offers an optional analog card that provides 4-20mA output for up to 32 WireFree sensors, ensuring flexibility in analog signal environments.
- **Versatile Application:** Ideal for enhancing safety systems, automating monitoring processes, and providing real-time data access.

### *Ideal For:*

- Industrial automation systems
- Environmental monitoring
- Large-scale gas detection networks
- Facilities utilizing PLC or SCADA systems

The Otis Instruments OI-9850 Interface WireFree Receiver delivers advanced communication capabilities, high-capacity monitoring, and easy integration, making it an ideal choice for modernizing safety systems and streamlining data management in industrial environments.



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## 255 Channel Non-Explosion Proof WireFree Interface

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 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 <sub>amb</sub> 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
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 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 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) 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

