GEN²

OI-9850-X-X-A4-X WireFree Interface

WireFree™ BY OTIS INSTRUMENTS

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. The OI-9850 is designed to be used in conjunction with an existing PLC, computer, or SCADA systems 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. The OI-9850 Interface Receiver is truly a remarkable product and a wonderful addition to the WireFree family.

Product Features

- 255 Channel WireFree Interface
  - All Addresses on Configured Network
- 12 to 35 VDC Operating Voltage
  - Optional AC Power Supply
- Operating Temperature Range of –40°C to +70°C
- Graphical LCD with LED Backlight
- 4 Push-Button Interface (MENU, ADD, 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
- 1–Year Limited Hardware Warranty
- Standard Fiberglass Enclosure with Clear Window

OI-9850 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 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 (-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 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 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
Approvals	ABS Design Assessed
Hardware Warranty	1-Year, Limited
Part Number Formula	OI-9850-[Power]-[Radio]-[Antenna]-[Channels] OI-9850-X-X-X-X