LEADERS IN GAS DETECTION
Since 1977

The Otis Instruments Model OI-7010 Controller is a Hybrid Monitor that supports up to 32 WireFree Sensor inputs. In addition, 4 of the channels can be setup for 4-20 mA wired input, making the OI-7010 compatible with both WireFree and Wired sensors. The OI-7010 comes standard with DC power and can be configured with an AC power supply. With the addition of a GEN 1 radio, the OI-7010 can operate in conjunction with either GEN I and/or GEN II sensors. This durable, flexible and customizable hybrid monitor, in conjunction with the Otis sensors, is part of a truly remarkable gas detection system.

Product Features

- 32 Channel Hybrid Monitor
    - Supports WireFree and Up to 4 Wired Sensors
- 12 to 35 VDC Operating Voltage
    - Optional AC Power Supply
- Operating Temperature Range of −40°C to +70°C
- Two Graphical LCDs with LED Backlights
- 5 Push-Button Interface (MENU, ADD, SUB, SCAN/HOLD, and RESET/ESC)
- GEN II 900 MHz or GEN II 2.4 GHz Radio Standard
    - GEN I 900 MHz Radio Can Also Be Installed
- Four Individually Configurable Alarm Set-Points
    - Four Front Panel ALARM LED Indicators (Red)
    - Four Dry-Contact Relays (4 Amps Maximum per Relay)
- Status LEDs for Power and Fault
    - Multi Color Status Light
    - Amber Fault LED for Indicating System Faults
- Output Options:
    - Wet Contact DC Fault Terminal
    - Relay 4 Can Optionally be Configured as a Fault Relay
    - RS-485 Modbus
- 1–Year Limited Hardware Warranty
- Standard Fiberglass Enclosure with Clear Window
    - Optional Stainless Steel Enclosure with Clear Window

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OI-7010 Product Specifications	
Product Type	32 Channel Gas Monitor
Power Operating Voltage	12V to 35V DC
Current Draw	275 mA Maximum at 24 VDC
Power Supply	3.13A (75W), 85/264V AC to 24V DC (Optional)
Antenna Connection	External N-Female Radio Frequency (RF) Connector
Protection	Power Electromagnetic Interference (EMI) Filter 4-20 mA Surge Suppression RS-485 Surge Suppression
Display Screen	2 Graphical LCD Screens with 128x64 Resolution Transflective (Sunlight Readable) with LED Backlight
Interface	5 Push-Buttons (MENU, ADD, SUB, SCAN/HOLD, and RESET/ESC)
Customizable Settings	Option to Disable Alarm Relays
T_{amb} Temperature Range	-40°C to +70°C
WireFree (Digital) and Wired (Analog) Input	Up to 32 WireFree Sensor Inputs, of which up to 4 can be 4-20 mA Wired Analog Inputs
Relays	4 Dry-Contact Relays with 4 Amp Replaceable Fuses Individually Set Full Scale, Normally Open or Normally Closed, Latching or Non-Latching and Fault Terminal
Digital Output	RS-485 Modbus
Product Compatibility	All Otis GEN I and GEN II WireFree Products and Any Wired 4-20 mA Sensors
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 (available in stainless steel)
Product Dimensions	10 in. L x 8 in. W x 6 in. H (Max. Dimensions w/ Attachments)
Total Weight	8.20 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
Approvals	ABS Design Assessed
Hardware Warranty	Limited one year
Part Number Formula	OI-7010-[Power]-[Radio]-A4-32-[Enclosure] OI-7010-X-X-A4-32

WireFree™
BY OTIS INSTRUMENTS

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