# LEADERS IN GAS DETECTION
*Since 1977*

## OI-7432-X-32 Modbus Monitor

The Otis Instruments OI-7432 Modbus ProSafe 4x32 is a 32-Channel Gas Controller that can communicate with up to 32 OI-6000 wired gas sensors by the use of RS-485 Modbus communication. The OI-7432 comes standard with DC power and can be configured with an AC power supply. The OI-7432 has four relays that can each be individually set up to the full scale gas reading and may be latching or non-latching. The OI-7432 used in conjunction with the OI-6000 sensor assembly allows for a quick and easy installation which leads to a safer working environment for you and your workers.



## Product Features

- 32 Channel Wired Modbus Monitor
- 12 to 35 VDC Operating Voltage
  - Optional AC Power Supply
- Operating Temperature Range of –40°C to +70°C
- Graphical LCD with LED Backlight
- 5 Push-Button Interface (MENU, ADD, SUB, SCAN/HOLD, and RESET/ESC)

- 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



OIL & GAS   CONFINED SPACE   HYGIENE   MINING   LABORATORIES   HVAC   DEFENCE   SHIPPING   FUMIGATION

| OI-7432 Product Specifications | |
|---|---|
| Product Type | 32 Channel Wired Modbus Gas Monitor |
| Power Type | Wired Power |
| Operating Voltage | 12V to 35V DC |
| Current Draw | 275 mA Maximum |
| Power Supply | 6.25A (150W), 85/264V AC to 24V DC (Optional) |
| Protection | Power Electromagnetic Interference (EMI) Filter<br>4-20 mA Surge Suppression<br>RS-485 Surge Suppression |
| Display Screen | 160x104 Resolution Graphical LCD Screen<br>Transflective (Sunlight Readable) with LED Backlight |
| Interface | 5 Push-Buttons (MENU, ADD, SUB, SCAN/HOLD, and RESET/ESC) |
| $T_{amb}$ Temperature Range | -20°C to +70°C (-4°F to +158°F) |
| Wired (Digital) Input | Up to 32 Individual OI-6000 Series Wired Gas Detectors using RS-485 Modbus |
| Relays | 4 Dry-Contact Relays with 4 Amp Replaceable Fuses<br>Fault Terminal<br>Option to Disable Alarm Relays<br>Latching and Non-Latching Relay Settings |
| Product Compatibility | GEN II Wired Sensors (OI-6000, OI-6000K) |
| Enclosure Material | Non Explosion-Proof Fiberglass Enclosure w/ Clear Window |
| Product Dimensions | 10 in. L x 8 in. W x 6 in. H<br>(Max. Dimensions w/ Attachments) |
| Total Weight | 8.5 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 |
| Hardware Warranty | 1-Year, Limited |
| Part Number Formula | OI-7432-[Power]-32<br>OI-7432-X-32 |

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