

OPTIO_V



The OPTIO V is a stand-alone, microprocessor based multi-gas detector in a Nema 4X enclosure and designed for ventilation control in enclosed parking spaces such as parking garages, vehicle maintenance facilities, warehouses, etc. Dry contact relays with programmable alarm points are provided for fan control and can be used in conjunction with external relays for louvre/damper control. Modbus communications can be used for monitoring with a building automation system (BAS) and two (2) 4-20mA outputs can be used to send a signal to variable frequency drive (VFD) controlled fans.

Designed to minimize installation time, the OPTIO V mounts to a standard 4"x4" junction box and has ample room for wiring relays, 4-20mA outputs and/or Modbus communications. Factory default settings allow for minimal setup times and provide savings from eliminating confusing configurations.

MULTI-GAS DETECTION FOR ENCLOSED PARKING AREAS

APPLICATIONS

- Enclosed Parking Garages
- Vehicle Maintenance Facilities
- Factories / Warehouses
- Bus Terminals & Depots
- Tunnels
- Car Dealerships
- Fire / Police Stations
- Service Bays

KEY FEATURES

- 5 Year Sensor Life
- Self Diagnostic
- Onboard Relay Contacts
- Onboard 80 db Alarm
- Automatic Reset After Power Loss
- Bright LCD Display
- 2 Year Limited Warranty

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SPECIFICATIONS

INPUT POWER OPTIONS

- 12-24 VDC
- 24-120VAC 50/60Hz

POWER CONSUMPTION

- Max 50mA @ 24 VDC

TEMPERATURE & HUMIDITY RANGE

- -20 to +50°C
- 15-90% RH non-condensing

IO CAPABILITIES

- 6 Digital input/output (0-5.0V)
- 6 Relay Ports (250VAC-220VDC, 2A) with Fail safe or Normal operation. Can be linked to Alarm states or controlled via Modbus.
- 2 channels 4-20mA outputs

COMMUNICATION INTERFACES

- Modbus RTU (RS485)

USER INTERFACE

- IR remote control

CONFIGURATION

- Local menu Display via graphical LCD
- Modbus Register Map

MENU & DISPLAY

- Intuitive menu navigation via LCD
- Password protected (User or Admin)
- Quick Review screens show additional diagnosis and Monitor Setting
- Real-time gas readings on screen
- Dimmable RGB backlight and contrast
- Backlight color indicates monitor status

ALARMS

- 4 Alarms with hysteresis and hold times
- Sensor Fail-High and Fail-Low
- Ability to link Alarm States to Relays

SENSOR SPECIFICATIONS

DETECTABLE GAS: CARBON MONOXIDE (CO)

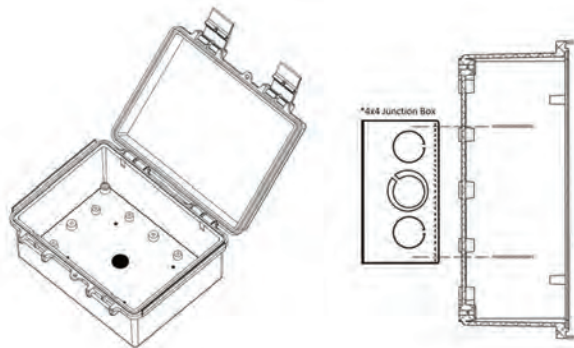
- Detection Range: 0-500 ppm
- Expected Lifetime: 7 years
- Operating Temperature: -20 to +50 degrees C
- Humidity Range: 15-90% RH
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DETECTABLE GAS: NITROGEN DIOXIDE (NO₂)

- Detection Range: 0-20 ppm
- Expected Lifetime: 2 years
- Operating Temperature: -20 to +50 degrees C
- Humidity Range: 15-90% RH

REPLACEMENT PARTS AND MANUFACTURER PART NUMBERS

- Main Board: T1453
- 4-20mA card: T1479
- Relay card: T1471
- Modbus card: T1469
- 24VAC Converter: P2634
- 120VAC Converter: 900744-ASBY-24
- CO Sensor: PNP0352-32
- NO₂ Sensor: PNP1021-33
- Calibration Kit: P1879-CO/NO₂-250/10
- Calibration Gas: P1880-Z (Zero Gas)
P1880-CO-250
P1880 NO₂-10
- IR Remote: 911118-CPM



SALES REPRESENTATIVE