



CONSPEC®

INNOVATION THAT DIGS DEEPER.

OPTIO V



Multi-Gas Detection For Enclosed Parking Areas

For over 50 years, Conspec has pioneered the design, development, and manufacturing of environmental and atmospheric monitoring, process control and safety technology relied upon by mining, industrial, oil & gas, and commercial operations all over the world.

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 louver/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.

BENEFITS

- Self Diagnostic
- Onboard Relay Contacts
- Onboard 80 db Alarm
- Automatic Reset After Power Loss
- Bright LCD Display
- 1 Year Standard Warranty
- Enclosed Parking Garages

APPLICATIONS

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

OPTIO™ V
Reliability when every second matters.



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Technical Specifications

SENSORS

- Carbon Monoxide (CO):
 - Detection Range: 0-500PPM
 - Expected Lifetime: 7 years
- Nitrogen Dioxide (NO₂):
 - Detection Range: 0-20PPM
 - Expected Lifetime: 2 years

ALARMS

- 4 Custom Alarm Levels with hysteresis and hold-to-alarm times
- Sensor Fail-High and Fail-Low alarms
- Ability to associate relay outputs with alarm levels from a single sensor, or multiple sensors using logical “AND/OR”

I/O CAPABILITIES

- 6 Relay Outputs (250 VAC, 220 VDC, 2A)
- 6 Multi Function Ports - DI/DO/AI (0-5V, 0-3.6V)
- 2 4-20mA outputs

INPUT POWER OPTIONS (NON IS)

- 6-30 VDC
- 24-120VAC 50/60Hz

COMMUNICATION INTERFACES

- RS485

COMMUNICATION PROTOCOLS

- Modbus RTU
- BACnet (pending)

CONFIGURATION

- Using IR remote with local LCD menu
- Via MODBUS Register Map using Conspec OASIS software/Conspec Senturion SCADA

MENU & DISPLAY

- Intuitive menu using graphical LCD
- Password protected (user or admin)
- Quick info screen shows device settings
- Real-time readings of multiple sensors
- Dimmable RGB backlight
- Backlight color indicates monitor status

USER INTERFACE

- IR remote control
- Conspec OASIS Windows configuration software

POWER CONSUMPTION

- 50mA (max) @ 24VDC

TEMPERATURE & HUMIDITY RANGE

- -20°C to +40°C, 15-90% RH non-condensing

WARRANTY

- One year standard warranty