



# CONSPEC®

INNOVATION THAT DIGS DEEPER.

## OPTIO S



## Optio S Single Gas Monitor

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.

Conspec's NEW Optio S Monitor is a lightweight budget monitor designed to withstand the harshest environmental and operational conditions. Where other monitors often fail, the Optio S Monitor flourishes, reducing downtime and increasing productivity, without compromising safety.

The Optio S Monitor has been designed and tested to ensure simple installation, calibration, and maintenance. The innovative design of the Optio S Monitor utilizes the strong design features and functions from the Optio G monitor but has been stripped of some of the more advanced features to be a more affordable monitor.

### BENEFITS

- Reliable & Stable Operation
- Single Sensor Support such as O<sub>2</sub>, CO, CO<sub>2</sub>, CH<sub>4</sub>, Air Velocity, Relative Humidity, Pressure, Temperature, etc.
- Simple Sensor Replacement with No Need for Initial Calibration of Sensor
- Enhanced Alarming Capabilities
- Easy Menu Navigation - Icon Based
- Affordable

### APPLICATIONS

- Mining and Tunneling
- Ventilation Management
- Safety Systems
- Fan Control Systems
- Air Quality Systems
- Post Blast Re-entry

**OPTIO™ S**  
Reliability when every second matters.

### SENSORS

- One installed sensor per monitor
- Factory preconfigured and calibrated
- Plug-and-Play Electrochemical sensors:
  - CO, O2, NO2, NO, H2S, and more
- NDIR sensors:
  - CO2, CH4
- Other sensors:
  - Air Velocity, Weather Station, etc.

### 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
- 100 - 240VAC 50/60Hz

### COMMUNICATION INTERFACES

- RS485, Conspec TRUNK
- Com Distance up to 6km (3.75miles)

### COMMUNICATION PROTOCOLS

- MODBUS RTU, Conspec Legacy ACCESSOR

### CONFIGURATION

- Using IR remote with local LCD menu
- Via MODBUS/Conspec Legacy Accessor 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

### DIMENSIONS

- 5.5"x5.5"x3.2" @ 2lbs

### POWER CONSUMPTION

- 2mA @ 15VDC (no sensors and 10% Backlight)
- 3mA @15VDC (1 NDIR CH4 Sensor and 10% Backlight)
- 9mA @15VDC (1 NDIR CO2 Sensor and 10% Backlight)
- 33mA @15VDC (1 Pellistor CH4 Sensor and 10% Backlight)

### TEMPERATURE & HUMIDITY RANGE

- -20°C to +40°C, 0-95% RH non-condensing
- Condensation recovery algorithm for NDIR CH<sub>4</sub> sensors

### WARRANTY

- One year standard warranty