



CONSPEC®

Superior detection, maximum protection.



OPTIO^{XP}

Single/Multi Gas Monitor

CONSPEC's NEW industrial gas detector featuring MIR infrared sensor technology incorporates moisture protection/compensation and provides a solution for harsh environments where other monitors fail.

The Optio XP has been designed and tested to withstand impacts, vibration, and dramatic environmental changes making it both rugged and reliable. The 2.6" intuitive graphical LCD, when combined with our infrared remote and on-board buttons, allow for simple installation, calibration, and maintenance.

The innovative Optio XP monitors up to (6) toxic and combustible sensor inputs* on one transmitter, which greatly reduces upfront costs by eliminating the need for multiple detectors.

* combination of IR, Catalytic Bead, and Electrochemical sensor

Benefits

- Reliable & Stable Operation
- Eliminates the Need for Multiple Single Point Detectors
- Multiple Gas Support such as CH₄, CO, H₂S, etc.
- Simple Sensor Replacement with No Need for Initial Calibration of Sensor
- Enhanced Alarming Capabilities
- Easy Menu Navigation - Icon based
- Industry Standard Communication Protocols for Easy Integration
- Multiple I/O Options

Applications

- Gas Production Units (GPU) - Oil & Gas
- Compressor Stations - Oil & Gas
- Power Plants
- Pulp & Paper
- Coal Handling Facilities
- Wastewater Treatment Plants
- Steel Production

And many, many, more!!

Technical Specifications

Sensors

- 3 Plug-and-Play Electrochemical sensors
 - Factory preconfigured and calibrated
 - CO, O₂, NO₂, NO, H₂S, and more
- 3 NDIR sensors
 - CH₄, CO₂, and more
- Sensor extension up to 100ft (30m)

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

- 4 Relay Ports (fail-safe or normal)
- 2 channels 4-20mA outputs

Communication Interfaces

- RS485, CONSPEC Trunk
- Modbus RTU

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

Input Power Options

- 10 - 32V DC (wired)
- 100 - 240VAC 50/60Hz (optional)

Power Consumption

- 2mA @ 24VDC (wired)

Temperature & Humidity Range

- -20 to +60°C, 0-99% RH non-condensing
- Condensation recovery algorithm for NDIR CH₄ sensors

Configuration

- Using IR remote with local LCD menu
- Via Modbus register map or wireless

User Interface

- IR remote control
- 4 local tactile buttons

Warranty

- Two years standard warranty

Approvals

- Class I Division I Groups ABCD, NEMA 4X
- Class I, Zone I, AEx d IIC, IP68
- IECEx Ex d II C, IP68
- ATEX 94/9/EC, EN50014, EN 50018
- SIL-1 (pending)

