

OPTIO IS



- ✓ **Monitors up to 6 gases simultaneously**
 - 3 NDIR sensors (CH₄ and CO₂)
 - 3 PnP (Plug-and-Play) sensors that are preconfigured and pre-calibrated
- ✓ **6 Relays controlled by alarm combinations**
- ✓ **2 Analog outputs (4-20mA/0-2V)**
- ✓ **Modbus RTU over Wireless Network**
- ✓ **Graphical Menu Setup**
- ✓ **Low Power**

PROVEN GAS DETECTION & MONITORING

CONSPEC CONTROLS LTD.

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CONSPEC CONTROLS INC.

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Charleroi, PA 15022
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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
- Air Velocity (external)
- 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"

IO CAPABILITIES

- 6 Relays (Not Intrinsically Safe)
- 2 channels 4-20mA outputs
- Horn/Strobe configurable control
- 6 Channel Analog Inputs (4-20mA, 0-5VDC)

COMMUNICATION INTERFACES

- RS485, TRUNK, Wireless
- Modbus RTU (wired or wireless)
- RS232, Power-over-Ethernet, Ethernet

MENU & DISPLAY

- Intuitive menu using graphical LCD
- Password protected (user or admin)
- Real-time readings of multiple sensors
- RGB backlight indicates monitor status

USER INTERFACE & CONFIGURATION

- Handheld IR remote with local display
- Via Modbus register map or wireless
- 4 Button Keypad

INPUT POWER OPTIONS

- 6-30 VDC (Non-hazardous Locations)
- 6-18 VDC (IECEX/ATEX)
- 6-15 VDC (MSHA)
- Battery Power (wireless operation)

POWER CONSUMPTION

- 2mA @ 15VDC (up to 6 EC Sensors and 10% Backlight)
- Monitor goes into various sleep modes when battery powered

TEMPERATURE & HUMIDITY RANGE

- -20 to +45°C, 0-99% RH non-condensing
- Condensation recovery algorithm for NDIR CH₄ sensors

WIRELESS FEATURES

- Up to 1 year battery life
- Up to 2 miles (above-ground)
- License free 915MHz band
- Seamless Modbus RTU over Wireless
- Gateway can support up to 32 Wireless Multigas monitors

WARRANTY

- One year standard warranty

APPROVALS (Pending)

- **IECEX:** Ex ia I Ma, Ex ia IIA T4 Ga, Ex ia IIIC T135°C Da
- **ATEX:** Ex I M1 Ex ia I Ma, Ex II 1 G Ex ia IIA T4 Ga, Ex II 1 D Ex ia IIIC T135°C Da,
- **North America: (Gas)** Class I, Division 1, Group D, T4, Class I, Zone 0, AEx ia IIA T4 Ga, Ex ia IIA T4 Ga, **(Dust)** Class II, Division 1, Groups E-G, T4 and Class III, T135°C, Class I, Zone 20, AEx ia IIIC T135°C Ga, Ex ia IIIC T135°C Da
- **MSHA**