

HY-ALERTA™ 600 Fixed Area Hydrogen Safety Monitor

Description

H2scan's HY-ALERTA™ 600 Fixed Area Hydrogen Monitor will provide hydrogen-specific leak detection and measurement for hydrogen concentrations as low as 4000 ppm and can be scaled to any concentration up to 5% hydrogen by volume, a range representing 10% to 125% of hydrogen's low flammability limit. The monitor is designed for either ceiling or wall mount and has an RS422 capability that extends the interface from the sensor to the controller to several hundred feet. **H2scan's** hydrogen-specific sensor technology has no cross sensitivity to any other combustible gases, thus eliminating false positive alarms and increasing system reliability.

Performance

Hydrogen Sensitivity Range:
 0.4% to 5.0% hydrogen by volume,
 10% to 125% hydrogen lower flammable limit
 Accuracy: $\pm (0.03 \times \text{indication} + 0.2)$ percent
 hydrogen by volume
 Typical Response Time: T90 of 60 sec maximum
 Ingress Protection: IP64 capable
 Calibration Interval: 90 days
 Product Life Expectancy: 10 years

Interface Options

Input Voltage Range: 8 VDC to 13 VDC
 Input Current: 1.0 A
 Analog Outputs:
 Output Voltages - OR - Output Currents

- 0 VDC to 5 VDC • 4 mA to 20 mA
- 1 VDC to 5 VDC • 0 mA to 20 mA
- 0 VDC to 4 VDC • User-specific mA range
- 0.5 VDC to 4.5 VDC
- User-specific VDC range

Serial Communication Options: RS232 or RS422
 Relay Contacts: Two programmable 60 VDC / 1 A
 SPDT relays with both normally open (N.O.) and
 normally closed (N.C.) contacts.

Certifications:  

Operating Conditions

Operating Temperature Range: -20°C to 40°C
 Storage Temperature Range: -40°C to 50°C
 Operating Humidity: 0% to 95% RH
 Calibration Background Gas: Air

Dimensions

Total Length: 7.2 in.
 Mounting Bracket Length: 5.6 in.
 Total Width: 4.4 in.
 Mounting Bracket Width: 4.0 in.
 Depth: 1.6 in.

