

HY-OPTIMA™ 2700 Explosion Proof In-line Hydrogen Process Analyzer

Description

H2scan's HY-OPTIMA™ 2700 real time hydrogen-specific process analyzers are designed for ease of use, interface flexibility and true process control. The HY-OPTIMA™ 2700 uses a solid-state sensor that is configured to operate in process gas streams. The HY-OPTIMA™ 2700 is ideal for hydrogen production and petrochemical applications where real-time measurements can enhance process plant efficiencies, diagnostics and maintenance management.

Performance

Hydrogen Sensitivity Range:
0.5% to 100% hydrogen by volume at 1 ATM
Response Time: T90 < 30 sec
Ingress Protection: IP64 capable
Recommended Verification Interval: 90 days
Product Life Expectancy: 10 years

Accuracy(*):

± 0.3% absolute for 0.5 to 10% H₂
± 1.0% absolute for 10 to 100% H₂

Drift/week:

± 0.2% absolute for 0.5 to 10% H₂
± 0.4% absolute for 10 to 100% H₂

Repeatability:

± 0.2% absolute for 0.5 to 10% H₂
± 0.4% absolute for 10 to 100% H₂

Linearity:

± 0.2% absolute for 0.5-10% H₂
± 0.4% absolute for 10-100% H₂

Operating Conditions

Operating Humidity: 0% to 95% RH (non-condensing)
Flow Rate: 0.1 slpm to 50 slpm
Pressure: 0 to 7 bar gauge, 0 to 100 psi gauge
Process Gas Temperature Range: -20°C to 110°C
Operating Temperature Range: -20°C to 55°C
Storage Temperature Range: -30°C to 80°C
Calibration Background Gas: Nitrogen

Adapter Fittings

3/4" Union Tee Compression

Dimensions

Width: 13.8 cm (5.4 in)
Length: 19.2 cm (7.5 in)
Depth: 13.0 cm (5.1 in)

Interface Options

Input Voltage Range: 90 VAC to 240 VAC
Input Power: 15W
Analog Outputs:

- Output Currents**
- 4 mA to 20 mA
 - 0 mA to 20 mA
 - User-specific mA range

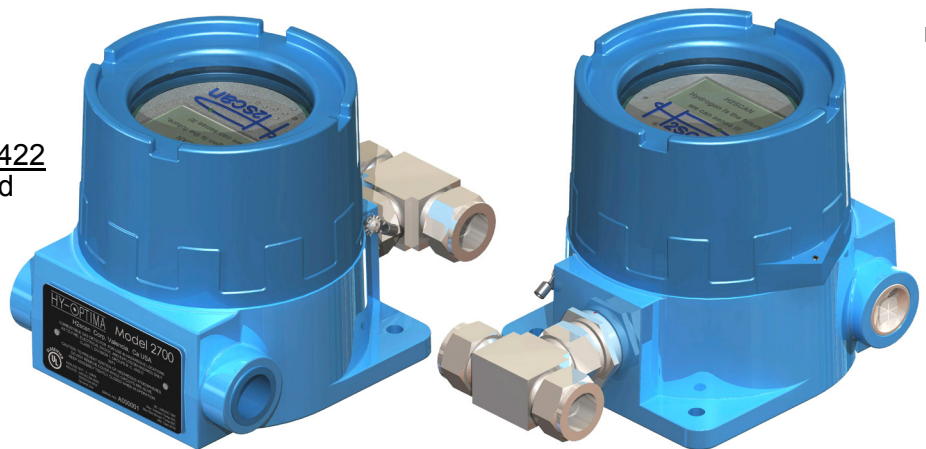
Serial Communication Options: RS232 or RS422

Relay Contacts: Two programmable relays and one fault relay with both normally open (N.O.) and normally closed (N.C.) contacts:

- 5A/240VAC
- 5A/ 30 VDC

Certifications:

UL 1203
UL 508
USC – Class I, Division 1, Groups B, C, and D
Hazardous (Classified)



* Sensor performance specifications are only valid for units configured for a maximum 65°C dry process stream and at 25 °C ambient temperature. All figures assume pressure compensation, operating in ambient that do not contain Oxygen and are in addition to any errors in the gasses used. The accuracy is specified for serial port output only.

HY-OPTIMA™ is a registered Trademark of **H2scan**
Specifications subject to change without prior notice
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