

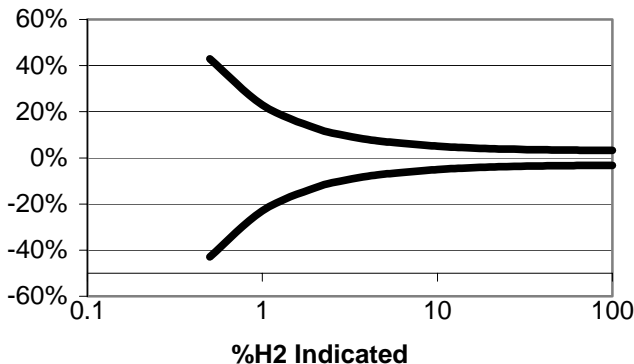
Model 700 HY-OPTIMA In-Line Process Hydrogen Monitor

Description

H2scan's Series 700 in-line, real time hydrogen-specific process monitors are designed for ease of use, interface flexibility and true process control. The Model 700 is a solid state sensor that can operate in humidity, CO streams and in process gas streams with temperatures up to 100°C. The Model 700 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 1ATM
Accuracy: \pm (3.0% of indication + 2000ppm)



Typical Response Time: T90 less than 30s
Ingress Protection: IP64 capable
Calibration Interval: 90days
Product Life Expectancy: 10years

Interface Options

Input Voltage Range: 8VDC to 13VDC
Input Current: 0.5A

Analog Outputs:

Output Voltages	- OR -	Output Currents
• 0VDC to 5VDC		• 4mA to 20mA
• 1VDC to 5VDC		• 0mA to 20mA
• 0VDC to 4VDC		• User-specific mA range
• 0.5VDC to 4.5VDC		
• User-specific VDC range		

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

Certification: 

Operating Conditions

Process Gas Tolerance:
CO tolerance < 1% CO by volume
No H₂S tolerance
No corrosion tolerance
Process Gas Temperature Range: -20°C to 100°C
Operating Temperature Range: -20°C to 40°C
Storage Temperature Range: -40°C to 50°C
Flow Rate: 0.1slpm to 50slpm
Pressure: 0 to 7bar gauge, 0 to 100psi gauge
Operating Humidity: 0% to 95% RH
Calibration Background Gas: Nitrogen

Adapter Fittings

½ in. MNPT
½ in. FNPT
-8 SAE/MS
SP076 Adapter
½ in. MVCR
... and many other industry standards.

Dimensions

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

