Hydrogen is the future, we can sense it! ™

Technical Data and Specifications

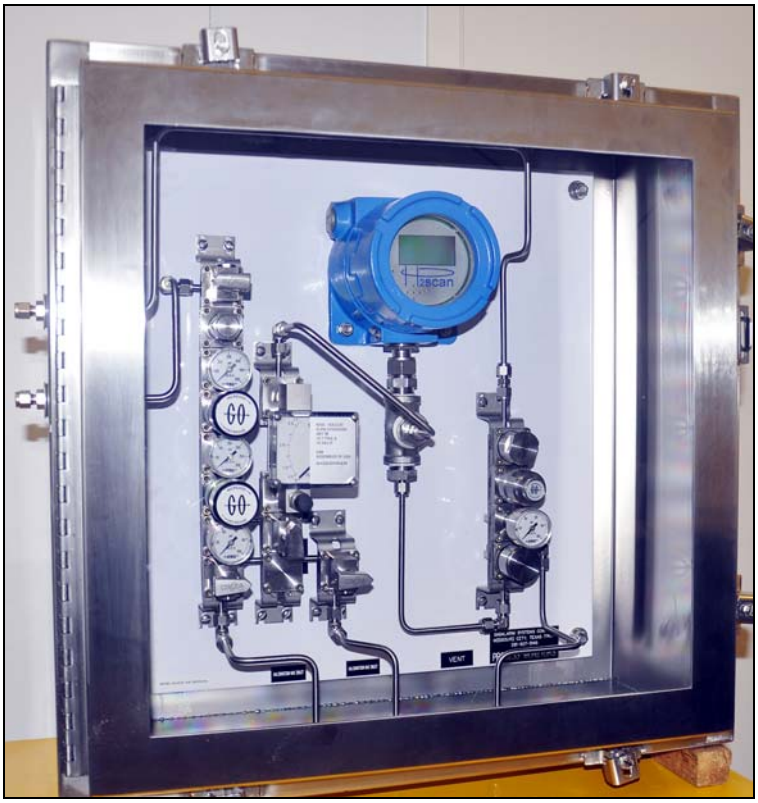
HY-OPTIMA™ 2700AS Process Hydrogen Analyzing System

Description

H2scan's HY-OPTIMA™ Model 2700AS Process Hydrogen Analyzing System provides a complete solution for process hydrogen measurement in refineries, chemical plants, air separation units and industrial gas manufacturing plants. The system implements **H2scan's** hydrogen specific analyzer in a NEMA 4X enclosure with the necessary sample conditioning components to enable operation over a broad spectrum of process conditions.

Sensor 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% H_2
± 1.0% absolute for 10 to 100% H_2
Drift/week:
± 0.2% absolute for 0.5 to 10% H_2
± 0.4% absolute for 10 to 100% H_2
Repeatability:
± 0.2% absolute for 0.5 to 10% H_2
± 0.4% absolute for 10 to 100% H_2
Linearity:
± 0.2% absolute for 0.5-10% H_2
± 0.4% absolute for 10-100% H_2



Interface Options

Analog Output: 4 to 20mA
Serial Communication: RS232/422
Two built-in relays
Fault relay

System Operating Conditions

Inlet Conditions:
Inlet pressure: 30 to 510 PSIG*****
Process temperature: -20 to 100ºC*****
Operating Voltage: 110VAC/230VAC
Enclosure Classification: NEMA 4X
Sample Flow Rate: .8 to 1 SLPM*****

Accessories*

Vortex Cooler
Enclosure Heater: 200 Watts, 1.74 Amps at 115 VAC
Flow Meter
Pressure Transducer

Typical Dimensions*

Length: 24''
Height: 24''
Width: 10''

Support & Warranty

1 year all parts and labor
Field support available upon request

Series 2700 Certification

UL Class1 Div1 Groups B,C,D
ATEX Ex Proof Ex d IIB + H2 T4 Gb

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