

HY-OPTIMA™ 1700AS Process Hydrogen Analyzing System

Description

H2scan's HY-OPTIMA™ Model 1700AS 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 comprises H2scan's hydrogen specific analyzer in a NEMA 4X enclosure with sampling systems and is capable of operating in a broad spectrum of process conditions.

Sensor Performance

Hydrogen Sensitivity Range:
0.5% to 100% hydrogen by volume at 1 ATM
Typical Response Time: T90 less than 30 sec
Verification Interval: 90 days
Sensor accuracy: $\pm (0.03 \times \text{indication} + 0.2)$ †
percent hydrogen by volume
Product Life Expectancy: 10 years

Interface Options

Analog Output: 4 mA to 20 mA
Serial Communication: RS422

Operating Conditions

Inlet Conditions:
Inlet pressure: 30-510 PSIG.*
Process temperature: -20 - 100°C*
Operating Voltage: 115VAC/230VAC
Enclosure Classification: NEMA 4X
Sample Flow Rate: .8 to 1 SLPM*

Included Accessories

Intrinsically Safe Power Barrier
Armored Power / Analog Cable: 4 m
Serial Interface Cable: 4 m (custom lengths optional)

Optional Accessories

Single Channel Intrinsically Safe Analog Output Barrier
(with or without relays)
Single Channel Intrinsically Safe RS422 Interface Barrier
Vortex Cooler
Enclosure Heater: 200 Watts, 1.74 Amps
at 115 VAC

Dimensions*

Length: 24"
Height: 24"
Width: 10"

Support & Warranty

1 year all parts and labor
Field support available upon request

* Can be customized per customer requirements.

† Higher accuracy spec is available for model 1740
under controlled process conditions.



NOTE: To comply with Class I, Division 2, Groups B, C & D electrical classifications, conduit sealing “Y” fittings must be installed at each of the wire connections to the monitor. These items are to be installed by others.

Figure 1: Monitor Panel
(Picture may reflect optional equipment)

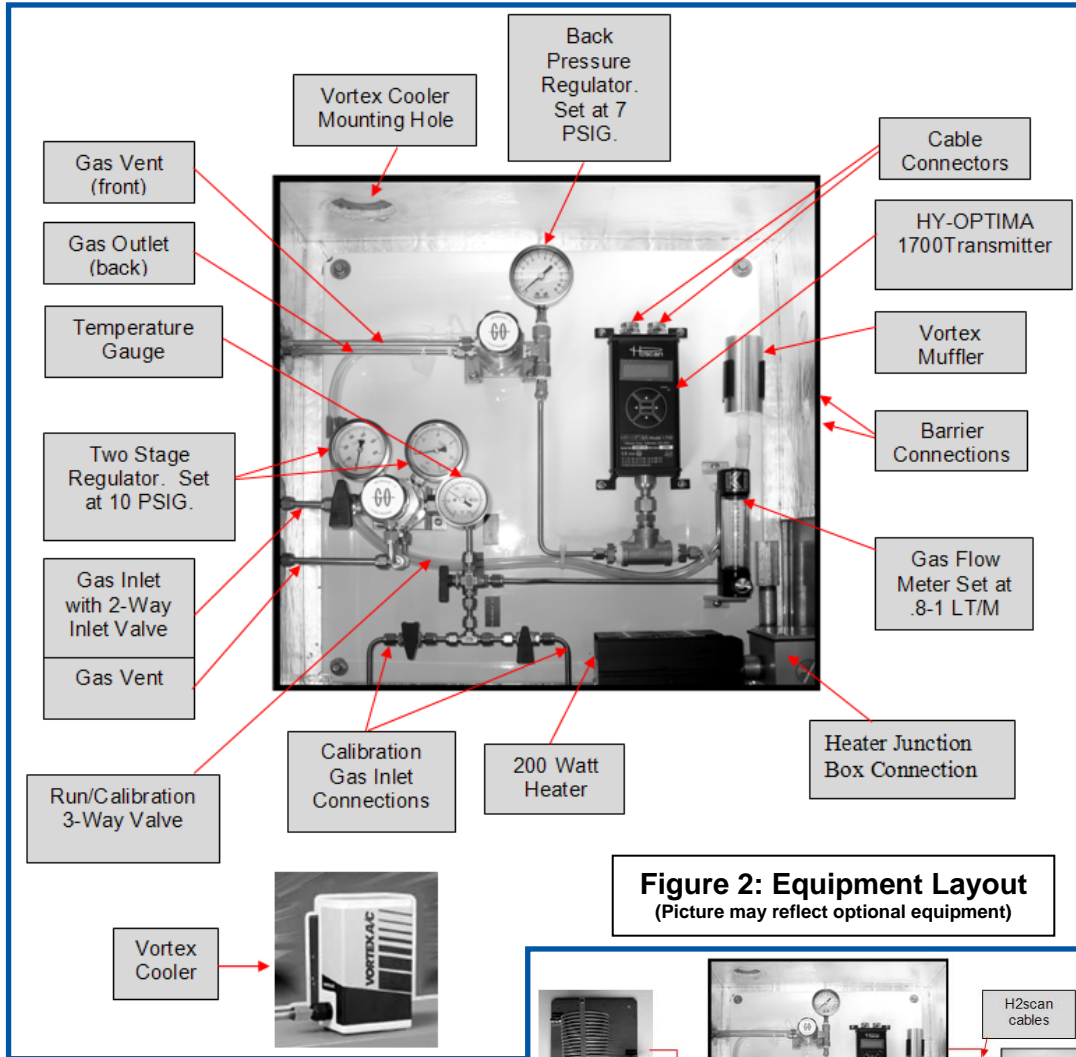


Figure 2: Equipment Layout
(Picture may reflect optional equipment)

