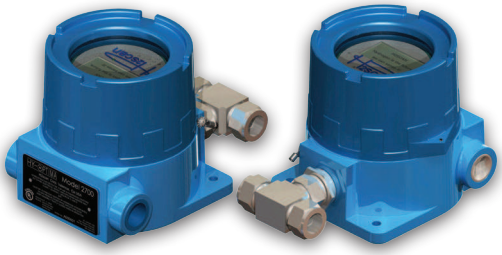
SERVOTOUGH
H2scan

EXPLOSION-PROOF IN-LINE HYDROGEN PROCESS ANALYZER, USING A SOLID-STATE, NON-CONSUMABLE SENSOR CONFIGURED TO OPERATE IN PROCESS GAS STREAMS



H2scan

The H2scan hydrogen process analyzer features thin film technology that provides a direct hydrogen measurement that is not cross-sensitive to other gases. The H2scan is ideal for applications where real-time, hydrogen specific measurements can enhance process efficiencies, diagnostics and maintenance management.

The H2scan does not require significant application development for each mix of hydrocarbon gases, yet it still exceeds industry standards. Used as a compliment to the light hydrocarbon analysis capability of the SERVOTOUGH SpectraScan, the combination of the two new and innovative technologies used challenges traditional GC analysis. By producing an accurate measurement at considerably faster speed, the H2scan/SpectraScan combination is a superior, yet simpler, detection for recycled and waste gas, and heating valve applications, achieved at considerably lower implementation and product lifetime costs.

FLEXIBLE

- Easily configurable alongside SERVOTOUGH SpectraScan
- Simple system integration
- 'Chip on a flex' technology enables real-time operation

EASY TO USE

- Field configurable settings via remote control interface
- Simple, in-line installation

LOW COST OF OWNERSHIP

- Low installation costs
- No reference or carrier gases
- Low lifetime cost-of-ownership in comparison to GC technologies

UNRIVALLED PERFORMANCE

- Hydrogen measurement not cross-sensitive to other gases
- Non-depleting sensing technology maintains performance without deterioration

BENCHMARK COMPLIANCE

- UL Class 1, Division 1, Groups B, C, D
- ATEX & CSA certifications

Learn more about the SERVOTOUGH H2scan
Visit servomex.expert/pb-h2s

PRODUCT DATA:
H2scan

Product Data:

The H2scan Series includes sensor types that are designed for specific hydrogen ranges, corrosive gas tolerances and operation when no hydrogen is present.

Product	Hydrogen Range		H_2 must be present	CO Limit	H_2S Limit	Max pressure		Response time (T_{90}) (sec)	Accuracy[3] (absolute)		Drift/week[3] (absolute)		Repeatability[3] (absolute)		Linearity[3] (absolute)		Calibration Background Gas
	Low	High				Bar (g)	psig		Low to 10% H_2	10% to 100% H_2	Low to 10% H_2	10% to 100% H_2	Low to 10% H_2	10% to 100% H_2	Low to 10% H_2	10% to 100% H_2	
2700	0.5%	100%	Yes	0	0	2	30	<60	0.3%	1.0%	0.2%	0.4%	0.2%	0.4%	0.2%	0.4%	N_2
2710	0.1%	20%	Yes	<100ppm	<20ppm	1[1]	15[1]	<90	0.15%	0.3%	0.15%	0.3%	0.15%	0.3%	0.15%	0.3%	N_2
2720	0.4%	5%	No	0	0	2	30	<60	0.3%	NA	0.3%	NA	0.3%	NA	0.3%	NA	O_2, N_2[2]
2730	0.5%	100%	Yes	<100ppm	<1000ppm	2	30	<60	0.3%	1.0%	0.2%	0.4%	0.2%	0.4%	0.2%	0.4%	N_2
2740	0.5%	100%	Yes	20%	3%	2	30	<90	0.3%	1.0%	0.2%	0.4%	0.2%	0.4%	0.2%	0.4%	N_2

1. 2710 products operated at 15psig will have a reduced H_2 range of 0.1% - 10% H_2
2. 2720 products may be operated in an Air, O_2 or N_2 background (see manual)
3. Sensor performance specifications assume a dry process stream, and ambient temperature of 25°C, pressure compensation and are in addition to any errors in the calibration gases used. The accuracy is specified for the serial port and digital display output only.

Product Data:

Sample Flow	0.1 to 10l/min
Dew Point	non condensing
Particulates	<5ppm

Device Specification:

Size:

- 190.50mm (L) x 137.16mm (W) x 144.78 (D)

Operating Temperature:

- - 20°C - 55°C

Certifications:

2700 Series

- UL Class 1, Division 1, Groups B, C, D UL 508,1203
- ATEX Ⓔx II 2 G ExdIIB+H_2 T4 Gb
- CSA-22.2 No. 30-M1986 R(2012)

Remote Control

UL Class 1, Division 1, Groups A, B, C, D, UL913

ATEX Ⓔx II 1G Exia IICT4

CAN/CSA C22.2 No. 157-92

(ATEX versions are limited to 1.1ATM max process gas pressure)

PBH2Scan Rev.1 Date: 12/18

KEY APPLICATIONS

- Refinery
- Petrochemical
- Natural Gas
- Manufacturing
- Industrial Gas Supply

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