PRO-CHEM ANALYTIK

H₂ - Sense

Hydrogen transmitter for detection of Hydrogen in dual gases

Process Hydrogen Analyzer

The H₂ - Sens is a simple, accurate and inexpensive hydrogen measurement from trace to percentage range.
This transmitter gives you the H2 value without affecting humidity, pressure, or temperature changes. The modern transmitter has a wide with to give out the measured values. The normal analog signals are available.

optional ⟨Ɛx⟩ ATEX II G Ex db IIC T6/T5

☺ A user-specific measuring range

There are measuring ranges between ppm, 5%, 10% and 100% available.

☺ Sensor

The H2-Sens is a semiconductor heat thermal conductivity detector (HTC) that provides all relevant data for compensation in a measuring cavity with additional sensors such as humidity, pressure and temperature.
This data can also be picked up as a signal. The sensors set industrial standards in accuracy, sensitivity, speed, easy of use and durability.

☺ Calibration

The measuring instrument is calibrated with a calibration gas.
This can be freely selected within the measuring range.

☺ Stainless steel cell housing

The cell housing is modular and consists of stainless steel on the medium side.
The H2-Sens can be supplied in the following versions:
- room control
- screw in sensor
- pipe mounting sensor
- ATEX in pressure enclosure Exd

☺ Benefits

- ✓ Moisture, pressure, temperature compensated
- ✓ Compact
- ✓ Inexpensive
- ✓ Long-life sensor
- ✓ Enclosure in IP69
- ✓ Fast response time

Specification

Measuring range	: 5%, 10%, 100%
Calibration	: with calibration gas
Accuracy	: +/- 0,5% FSD T= konst. +/- 5% FSD 0>T>50°C
Resolution	: 0,01%
Response time t_{90}	: < 5 s
Working temperature: -40 - +85°C	
Sample pressure	: 0,6 - 5 bar abs
Signal output	: 4 -20 mA / DC CAN-, Mod-Bus optional
Measure interval	: 100 ms
Carrier gas	: air, O2, N2
Power supply	: 10 - 30 VDC/ 1.6W
Burden	: type. 470 Ohm, max. 750 Ohm
Display	: graphic Display
Hydrogensensor	: WLD
Protection	: IP69
Case	: 95 x 83 x 41 (W x H x T) 1.4404 Stainless steel
Weight	: 1,0 kg

Standard Features

- Various sensors can be used
- 3 available measuring ranges
- Stainless steel measurement chambers

Applications

- Gas manufacturing
- electrolyzer
- chemical industry
- Heat treatment
- u.a.

Note: technical changes are possible at any time without notice