Dr. Thiedig

Sampling & Analysing Systems

MEASURING INSTRUMENTS

Made in Germany

Digox 6.1 H2-S GAS

Measuring hydrogen concentrations in gas mixtures

Analyser Digox 6.1 H2-S GAS

The Digox 6.1 H2-S is an instrument to measure the concentration of hydrogen in gas mixtures. The hydrogen would be detected on fuel cell sensor after separating with a membrane.
The working principle assures reliable, long-living and maintenance-free operation.

The Digox 6.1 H2-S consists of gas sensor, pressure sensor and display unit.
The sensors are designed for operation in closed contaminated gas circuits. The display unit processes the sensor signals, displays them and provides further signal outputs.
A reference value, determined by a laboratory method or as a test gas, can be used to calibrate the analyser.
The maintenance-free sensors avoid the exposure of operator.
The display unit can be mounted in safe area. Cable lengths up to 100 meters between the sensors and transmitter are possible.

Digox 6.1 H2-S GAS

ADVANTAGES

- **approved and field-tested measuring system**
- **reliable, long-living and maintenance-free sensor without wearing parts**
- **low fault liability by avoiding integrated components in the sensor, trough analog signal transmission and included sensor self test function**
- **integrated compensation of temperature and pressure influence**

TECHNICAL DATA

MEASURING INSTRUMENTS

Digox 6.1 H2-S GAS

Type	Digox 6.1 H2-S GAS stationary
Measuring range	0…5 Vol% H_2
Accuracy	±10 % reading
Resolution	0,01 Vol%, selectable
Response time	t_{90} < 20 min
Calibration	reference calibration, (i.e. gas chromatography or test gas)
Sample flow	25…250 Nl/h
Sample pressure	1…24 bar, automatically compensated
Sample temperature	15…50 °C, automatically compensated
Carrier gases	Nitrogen, Oxygen <5%, inert gases
Design	transmitter on mounting plate for wall mounting gas and pressure sensor for sample line assembling connection signal cable (maximum length 100 m)
Sensor	stainless steel housing, integrated temperature sensor inlet and outlet Ø 6 mm/Ø ¼“ Swagelok
Material in contact with sample line coolant	stainless steel, Kapton, EPDM
Signal output	3 x active 0(4)…20 mA free selectable 5 x switching contact (changer), free selectable 60 V/0,5 A
Power supply	100…240 VAC (50/60 Hz), 20 VA
Ambient temperature	0…40 °C
IP Rating	IP 65
Weight	transmitter 3 kg sensor 3 kg
Dimensions	transmitter on mounting plate 300 x 500 x 80 mm (H x W x D) sensor 70 x 100 mm (Ø x H)

Subject to technical alterations.

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