

H2-Sensor for Low Pressure Carburizing



Measuring principle: Heat conductivity of measuring gas in nitrogen, ammonia, hydrogen and carbonic gases.

- Applicable for nitriding, nitrocarburizing, oxy-nitriding, X-nitriding as well as carburizing processes.
- Simple installation by convection pipe connection, which is located within the gas atmosphere.
- Calibration gas connection and electric connection over connector.
- No exhaust gas over sensor.
- The sensor works according to the diffusion principle.
- The sensor can be connected directly to the 4-20mA input of the automation device (e.g. recorder, programmer etc.)

Technical Data

- Measuring converter WLD / heat-conductive gas sensor
- Measuring gas temperature: corresponding to process temperature
- Connection temperature at KF flange: < 65°C
- Measuring gas pressure: 3-30mbar, calibrated for 5 mbar abs.
- Measuring components: Hydrogen: 10 - 100 Vol%
Carbonic gases
- Measuring range : 0...100 Vol%
- Output: 4-20 mA linear
- Time response : Output delay 6...20s
- Preheat time: Depending on sensor installation, up to 30 minutes at room temperature
- Dimension: 110x70x240mm (WxHxD)

Accessories

- Documentation
- Power supply unit (optional) 24V/3A, short-circuit proof, output voltage 24V ± 10%
- 2m connecting line with connected plug connector to sensor

Requirements for use

- Convection pipe, depending on installation situation on request
- Connection with KF16 vacuum flange

