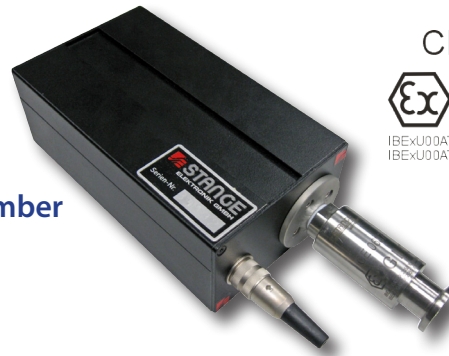


Hydrogen Sensor for the Definition of the Nitriding Atmosphere, with ATEX Approval

**Measuring Chamber
H2 Sensor**



CE 0637
Ex G II C
IBEXU00ATEX 2058 X Hastelloy
IBEXU00ATEX 2059 X Edelstahl

Sensor Connection KF16

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: 20-600°C (process temperature)
- Connection temperature at KF flange: max. 65°C
- Measuring gas pressure: over Atex approved flame arrester (detonation guard)
- Measuring components: hydrogen: 0 - 60 Vol%
ammonia: 10 - 90 Vol%
- Measuring range : 0...60 Vol%
- Output: 4-20 mA
- Time response : Output delay 20...40s
- Preheat time: approx. 30 minutes, depending on sensor installation
- Dimension: 110x70x260mm (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

