Solid-state HYDROGEN sensor for range 1-300 ppm

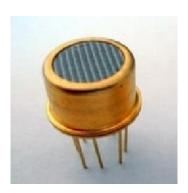
Model H2.S.1.300.XXXX

Novel solid-state Hydrogen gas sensors are dedicated for continuous measurement of small concentrations of hydrogen in various media such as air, methane, vacuum, hydrocarbon gases, transformer oil, inert gases. in the range of 1-300 ppm by gas detectors, analyzers, DGA (Dissolved Gas Analysis) systems and are based on the Metal-Insulator-Semiconductor (MIS) multilayer wafers manufactured by help of the Pulse Laser Deposition technology.

Dedicated for OEM manufacturers of gas detectors and analyzers.

The core advantages of solid-state Hydrogen sensors:

- high sensitivity
- long-term stability
- long service life,10+ years
- long shelf life,7+ years
- selectivity to H₂
- ability of stable operation in conditions of vibration, shock, pressurized media
- very low rate of cross sensitivity to HC, H2S*, CO, CO2, SO2, NOx*
- operation in the conditions of low temperature, high humidity, high temperature
- possibility to design the gas detection devices with the feature of automatic tuning and monitoring the key parameters.
- * follow the manufacturer's technical guidance



- Measured gas: HYDROGEN (H2)
- Measured media: air, inert gases, methane, hydrocarbon gases, transformer oil, vacuum.
- Measurement range: 1 300 ppm
- Error: ± 1 ppm H2
- Operating temperature: -40°C _+120°C
- Medium pressure: max. 10 Bar
- Relative humidity during operation: max. 98% with condensation
- Tested on vibration: 15g 7 ms 2000 impacts, 10g 7 ms 8800 impcts
- Response time: (T90) <60 s (100 ppm H2)
- Recovery time: (T10) <150s
- Calibration interval: 360 days.
- Expected life time: 10+ years
- Package: TO-8

