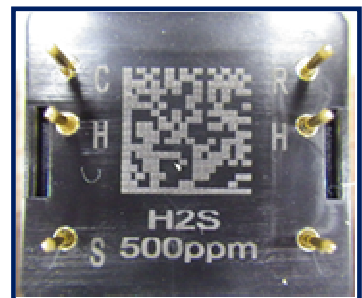
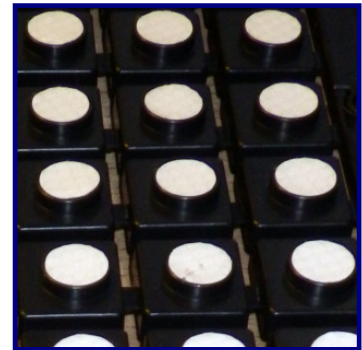


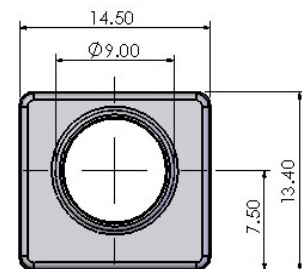
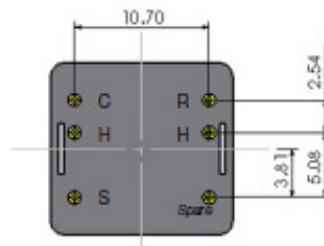
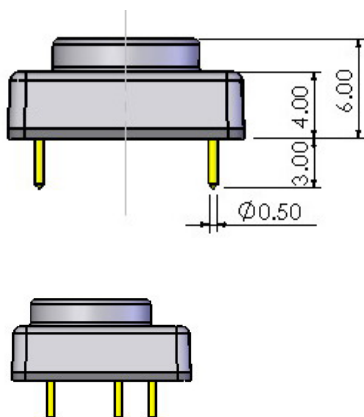
HYDROGEN SULFIDE 500 HS Micro+ Technical Specification

| | |
|-----------------------------------|--|
| <i>Sensor Type</i> | <i>H₂S 500 HS Sensor Micro+</i> |
| <i>Detectable Gases</i> | <i>Hydrogen Sulfide</i> |
| <i>PN single sensor</i> | <i>01-37-20-00</i> |
| <i>Measuring Principle</i> | <i>Amperometric 3-electrode sensor</i> |
| <i>Contact</i> | <i>6 pins solderable with care</i> |
| Standard Range | 0 – 200 ppm |
| Lower Detectable Limit (LDL) | 1 ppm |
| Maximum Range | 500 ppm |
| MAK/TLV | 10 ppm |
| Long Term Sensitivity Drift | < 1 % / month |
| Linearity at standard range | linear |
| Repeatability | > 98 % of signal |
| Zero current at normal conditions | +/- 20 nA |
| Sensitivity | 60 ... 160 nA/ppm |
| Response time at target level | |
| T50 | < 10 s |
| T90 | < 30 s |
| Sensor warm up time typically | 60 s |
| Operating conditions | - 20°C ... +50°C 10 ... 95 % r. h. |
| Expected sensor life time | 5 years |



HYDROGEN SULFIDE 500 HS Micro+ Dimensional Drawing

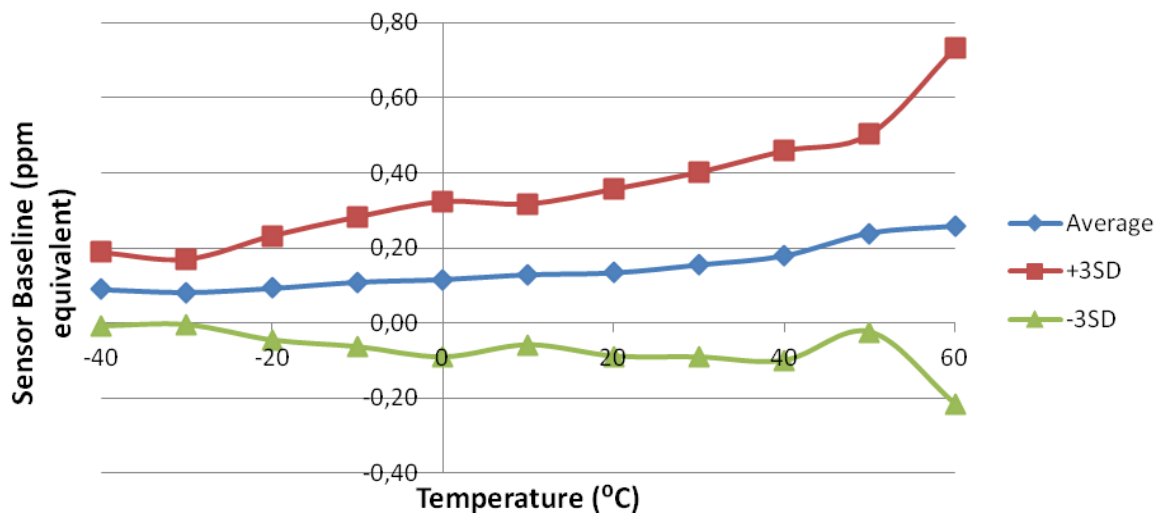
Sensor dimensions 14,5 mm x 13,4 mm x 9 mm ± 0,15 mm tolerance



HYDROGEN SULFIDE 500 HS Micro+ Temperature Dependency

Sensor Baseline vs. Temperature

The graph below shows the impact of temperature on the baseline of the sensors (in ppm equivalent).



HYDROGEN SULFIDE 500 HS Micro+ Cross Sensitivity

| Gas | Formula | Test Gas Concentration | Reading in ppm |
|--------------------------|----------------------------------|------------------------|----------------|
| Ammonia | NH ₃ | 25 ppm | 0 |
| Carbon Dioxide | CO ₂ | 5000 ppm | 0 |
| Carbon Monoxide | CO | 50 ppm | 3 |
| Chlorine | Cl ₂ | 1.0 ppm | n/a |
| Hydrocarbons unsaturated | - | 1 % | 0 |
| Hydrogen | H ₂ | 100 ppm | 3 |
| Isopropanol | C ₃ H ₇ OH | 1000 ppm | 0 |
| Nitric Oxide | NO | 20 ppm | ? |
| Nitrogen Dioxide | NO ₂ | 10 ppm | -2 |
| Ozone | O ₃ | 0.5 ppm | n/a |
| Sulphur Dioxide | SO ₂ | 20 ppm | n/a |

Note:

Test conditions at 23°C/ 1013 hPa, Flow Rate > 500 qcm/min
 Cross sensitivity gases are not target gases. Relation can change with aging.

SolidSense GmbH believes the data contained herein are factual, and the opinions expressed are of qualified experts regarding the results of tests conducted, the data are not to be taken as warranty or representation which SolidSense assumes legal responsibility. The data are offered solely for consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with federal, state, and local laws and regulations. Specifications are subject to change without notice.

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