

## SPECIFICATION SHEET FOR H<sub>2</sub>S SENSOR TYPE H2S/M-500

### PERFORMANCE CHARACTERISTICS

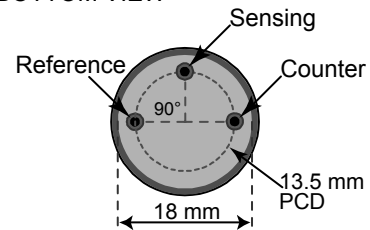
|   |                                     |
|---|-------------------------------------|
| Nominal Range                           | 0 – 500 ppm                         |
| Maximum Overload                        | Nd                                  |
| Expected Operation Life                 | 2 years in air                      |
| Output Signal                           | 100 ± 20 nA/ppm                     |
| Resolution                              | 1 ppm                               |
| Temperature Range                       | - 40 °C to + 50 °C                  |
| Pressure Range                          | Atmospheric ± 10 %                  |
| Pressure Coefficient                    | No data                             |
| t <sub>90</sub> Response Time           | < 45 sec                            |
| Relative Humidity Range                 | 15 % to 90 % R.H.<br>non-condensing |
| Typical Baseline Range (pure air, 20°C) | - 1 ppm to +1 ppm                   |
| Maximum Zero Shift (+20°C to +40 °C)    | 1 ppm equivalent                    |
| Expected Long Term Output Drift         | < 2 % signal loss/month             |
| Recommended Load Resistor               | 10 Ohm                              |
| Bias Voltage                            | Not required                        |
| Repeatability                           | < 2 % of signal                     |
| Output Linearity                        | Linear                              |

### PHYSICAL CHARACTERISTICS

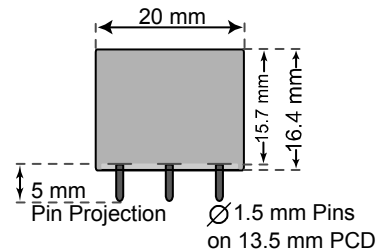
|                                 |                                 |
|---------------------------------|---------------------------------|
| Weight                          | ~ 5.4 g                         |
| Position Sensitivity            | None                            |
| Storage Life                    | Six months in container         |
| Recommended Storage Temperature | 5 °C – 20 °C                    |
| Warranty Period                 | 12 months from date of dispatch |

### Miniature-Size Outline Dimensions

BOTTOM VIEW



SIDE VIEW



### CROSS-SENSITIVITY DATA

| Interfering Gas | Concentration | Reading |
|-----------------|---------------|---------|
| CO              | 300 ppm       | < 1 ppm |
| H <sub>2</sub>  | 600 ppm       | < 2 ppm |

Performance data conditions:  
20 °C, 50% RH and 1013 mbar

### APPLICATIONS

Safety and Environmental Control  
For Portable Gas Detectors

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