

## SPECIFICATION SHEET FOR CO SENSOR TYPE CO/MFA-500 WITH H<sub>2</sub> COMPENSATION

### PERFORMANCE CHARACTERISTICS

|   |  |
|---|--|
| Nominal Range                           | 0 – 500 ppm                                    |
| Maximum Overload                        | Nd   |
| Expected Operation Life                 | 2 years in air                                 |
| Output Signal                           | 70 ± 15 nA/ppm                                 |
| Inboard Filter                          | To remove H <sub>2</sub> S and SO <sub>2</sub> |
| Resolution                              | 1 ppm  |
| Temperature Range                       | - 20 °C to + 50 °C                             |
| Pressure Range                          | Atmospheric ± 10 %                             |
| Pressure Coefficient                    | No data  |
| t <sub>90</sub> Response Time           | < 25 sec                                       |
| Relative Humidity Range                 | 15 % to 90 % R.H. non-condensing               |
| Typical Baseline Range (pure air, 20°C) | - 2 ppm to +3 ppm                              |
| Maximum Zero Shift (+20°C to +40 °C)    | 9 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   |

### CROSS-SENSITIVITY DATA

| Interfering Gas  | Concentration | Reading   |
|------------------|---------------|-----------|
| H <sub>2</sub>   | 100 ppm       | < 10 ppm  |
| H <sub>2</sub> S | 15 ppm        | < 0.5 ppm |
| NO               | 35 ppm        | < 3 ppm   |
| NO <sub>2</sub>  | 10 ppm        | 0 ppm     |

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

### APPLICATIONS

CO Detection in CO/H<sub>2</sub>-Mixtures  
Safety and Environmental Control  
For Portable Gas Detectors

The data contained in this document is for guidance only. Membrapor AG accepts no liability for any consequential losses, injury or damage resulting from the use of this document or the information contained within it. The data is given for guidance only. Customers should test under their own conditions, to ensure that the sensors are suitable for their own requirements.

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Page 1 of 1

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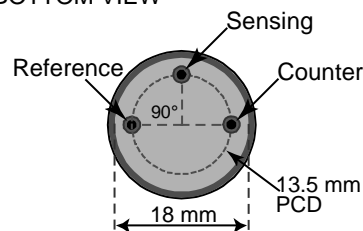
SUNSTAR自动化 <http://www.sensor-ic.com/> TEL: 0755-83376489 FAX:0755-83376182 E-MAIL: szss20@163.com

### PHYSICAL CHARACTERISTICS

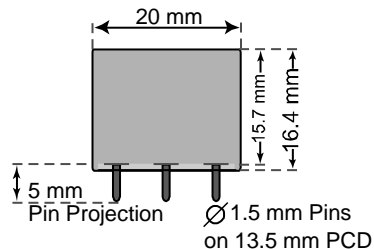
|                                 |                                 |
|---------------------------------|---------------------------------|
| Weight                          | ~ 5.4 g                         |
| Position Sensitivity            | None                            |
| Storage Life                    | 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



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