

## ELECTROCHEMICAL GAS SENSORS

## SPECIFICATION SHEET FOR PHOSPHINE SENSOR TYPE PH3/M-20

## PERFORMANCE CHARACTERISTICS

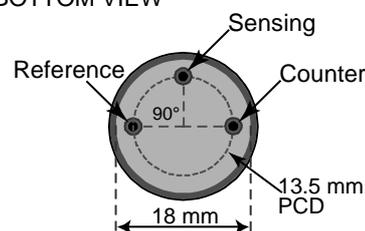
Nominal Range	0 – 20 ppm
Maximum Overload	100 ppm
Expected Operation Life	2 years in air
Output Signal	1000 ± 300 nA/ppm
Resolution	0,1 ppm
Temperature Range	- 20 °C to 50 °C
Pressure Range	Atmospheric ± 10%
Pressure Coefficient	No data
T <sub>90</sub> Response Time	< 25 sec
Relative Humidity Range	15 % to 90 % R.H. non-condensing
Typical Baseline Range (pure air, 20°C)	0 ppm ± 0,2 ppm
Maximum Zero Shift	N.D.
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

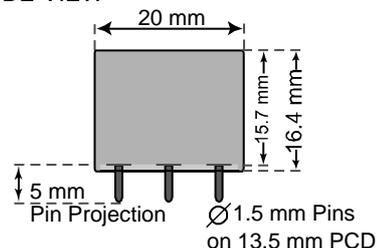
Weight	~ 5,6 g
Position Sensitivity	None
Storage Life	Six months in container
Recommended Storage Temperature	5 °C – 20 °C
Warranty Period	12 months from date of dispatch

## Miniature-Size Outline Dimensions

## BOTTOM VIEW



## SIDE VIEW



## CROSS-SENSITIVITY DATA

Interfering Gas	Concentration	Reading
CO	100 ppm	0 ppm
H <sub>2</sub> S	34 ppm	~ 8 ppm
NO	100 ppm	0 ppm
NO <sub>2</sub>	100 ppm	~ -30 ppm
H <sub>2</sub>	100 ppm	0 ppm
Ethylene	100 ppm	0 ppm
SO <sub>2</sub>	100 ppm	25 ppm
SiH <sub>4</sub>	10 ppm	5 ppm

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

## APPLICATIONS

Safety and Environmental Control  
For Portable Gas Detectors

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