

Product Specification of:

H₂S - Industrial Sensor / Type I-46



:: KEY FEATURE ::

Amperometric gas sensor designed for biogas applications with low H₂S concentrations in discontinuous mode, with potentiostat and buffering battery on board, has a low drift and short recovery times even when highly overloaded and almost no H₂ cross interference.

All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa.

Operating Principle:	3-electrode potentiostatic cell with potentiostat
Electrical Connector:	4-pin Molex®
Sensor Lifetime:	~ 2 years
Gas Connector:	M16 x 1 thread
Measurement Range:	0 to 50 ppm
Maximum Overload:	up to 250 ppm
Sensitivity:	500 to 1,000 nA/ppm
Response Time t₉₀:	< 25 s
Drift:	< 10 % signal/year
Zero Offset Current:	< ± 1 ppm
Operating Temperature:	10 to 45 °C (increased response time below 0 °C)
Pressure Range:	750 to 1250 hPa
Humidity Range:	30 to 60 % RH
Interferences:	2.000 ppm CO: < 1 nA/ppm 1.000 ppm SO ₂ : < 40 nA/ppm 800 ppm NO: < 400 nA/ppm 100 vol. % H ₂ : none
Weight:	approximately 13 g
Material in Contact with Media:	PP, PPS, PTFE, stainless steel



:: STORAGE CONDITIONS ::

Temperature Range:	recommended: 5 to 30 °C maximum: -10 to 50 °C
Ambient Pressure:	600 to 1250 hPa
Humidity:	10 to 98% RH
Shelf Life:	< 3 months recommended

:: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour
H ₂ S - Sensor I-46	48 01 40	grey

This data sheet is subject to change without prior notice. [I-46-Rev_022012.doc]

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