

Product Specification of:

H₂S - Industrial Sensor / Type I-42



:: KEY FEATURE ::

Amperometric gas sensor designed for biogas applications with high H₂S concentrations in discontinuous mode, with potentiostat and buffering battery on board, has a low drift and short recovery times even when highly overloaded.

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 10,000 ppm
Maximum Overload:	up to 50,000 ppm for a short period
Sensitivity:	0.2 to 2 nA/ppm
Response Time t₉₀:	< 90 s
Drift:	< 10 % signal/year
Zero Offset Current:	< ± 500 nA
Operating Temperature:	0 to 50 °C (increased response time below 0 °C)
Pressure Range:	750 to 1250 hPa
Humidity Range:	30 to 98 % RH
Interferences:	CO: none SO ₂ : < 0.3 nA/ppm NO ₂ : none NO: none
Weight:	approximately 24 g
Material in Contact with Media:	PP, PPS, PTFE, stainless steel



:: STORAGE CONDITIONS ::

Temperature Range:	recommended: 5 to 30 °C maximum: -20 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-42	48 00 27	grey

This data sheet is subject to change without prior notice. [I-42-Rev_022012.doc]

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