

Product Specification of:

O₂ - Industrial Sensor / Type I-05



.: KEY FEATURE .:

Galvanic gas sensor designed for use in areas subject to explosion hazards, may equally be applied in smoke gas analysis.

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

Measurement Range:	0 to 35 Vol.%
Expected Operating Life:	~ 500,000 Vol.% h
Sensor Lifetime:	< 3 years @ ambient air
Electrical Connector:	2-pin on PCB
Gas Connector:	flat base
Initial Output Signal:	25 µA ± 5 µA @ dry ambient air
Response Time t₉₀:	< 12 s
Drift:	< 3 % per month, averaged across 12 months
Linearity Error:	0 to 2 Vol.% O ₂ : ± 0.1 absolute 2.1 to 35 Vol.% O ₂ : ± 0.5 relative
Operating Temperature:	0 to 50 °C
Pressure Range:	700 to 1250 hPa
Influence of Humidity:	- 0.03 % rel. O ₂ reading per % RH
Interferences:	< 0.1 % O ₂ response to: 16.0 Vol.% CO, balance N ₂ 15.0 Vol.% CO ₂ , balance N ₂ 3,000 ppm C ₃ H ₈ , balance N ₂ 1,000 ppm Benzene, balance N ₂ 3,000 ppm NO, balance to N ₂ 500 ppm SO ₂ , balance N ₂
Weight:	approximately 25 g
Material in Contact with Media:	PA 12, PPS, PTFE, stainless steel



.: STORAGE CONDITIONS .:

Temperature Range:	recommended: 5 to 30 °C maximum: - 20 to 50 °C
Humidity:	up to 100 % RH
Ambient Pressure:	600 to 1750 hPa
Shelf Life:	< 3 months recommended

.: RELATED PRODUCTS .:

Product	Part-No.	Housing Colour
O ₂ - Sensor I-05	48 00 17	black / translucent

This data sheet is subject to change without prior notice. [I-05-Rev_022012.doc]

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