

Product Specification of:

CO - Industrial Sensor / Type I-31



:: KEY FEATURE ::

Amperometric gas sensor 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 and gas flow ≥ 2.5 L/min.

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 2,000 ppm	
Maximum Overload:	up to 10,000 ppm	
Sensitivity:	25 to 50 nA/ppm	
Response Time t_{90}:	< 15 s	
Drift:	< 10 % signal/year	
Zero Offset Current:	< ± 5 ppm	
Operating Temperature:	0 to 50 °C	
Pressure Range:	600 to 1250 hPa	
Humidity Range:	30 to 98 % RH	
Interferences:	CO ₂ : none	H ₂ S: < 250 nA/ppm
	H ₂ : < 5 nA/ppm	NO ₂ : < - 30 nA/ppm
	O ₂ : none	NO: < 10 nA/ppm(in mixed NO/CO)
	SO ₂ : < 40 nA/ppm	
Weight:	approximately 24 g	
Material in Contact with Media:	PP, PPS, PTFE, stainless steel	



:: STORAGE CONDITIONS IN UNOPENED ORIGINAL PACKAGE ::

Temperature Range:	recommended: 5 to 30 °C
	maximum: -20 to 50 °C
Ambient Pressure:	600 to 1250 hPa
Humidity:	10 to 98 % RH, non-condensing
Shelf Life:	< 3 months recommended

:: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour
CO - Sensor I-31	48 00 06	grey

This data sheet is subject to change without prior notice. [I-31-Rev-03-2019_0204.doc]