

Product Specification of:

## CO - Scuba Diving Sensor / Type D-31



### :: KEY FEATURE ::

**Amperometric gas sensor with low drift and short recovery times even when highly overloaded.**

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

<b>Operating Principle:</b>	3-electrode potentiostatic cell w/o potentiostate
<b>Electrical Connector:</b>	3-pin Molex®
<b>Gas Connector:</b>	M16 x 1 thread
<b>Measurement Range:</b>	0 to 2,000 ppm
<b>Initial Sensitivity:</b>	50 nA/ppm to 100 nA/ppm
<b>Warm-up Time:</b>	10 min when connected to bias
<b>Maximum Overload:</b>	up to 10,000 ppm
<b>Response Time <math>t_{90}</math>:</b>	< 20 s
<b>Bias Voltage:</b>	0 mV
<b>Drift:</b>	< 10 % signal/year
<b>Zero Offset Current:</b>	< $\pm 5$ ppm
<b>Sensor Lifetime:</b>	> 2 years
<b>Operating Temperature:</b>	0 to 40 °C
<b>Pressure Range:</b>	750 to 1250 hPa
<b>Interferences:</b>	none to He and CO <sub>2</sub>
<b>Weight:</b>	approximately 13 g
<b>Material in Contact with Media:</b>	PP, PPS, PTFE, stainless steel



### :: STORAGE CONDITIONS ::

<b>Temperature Range:</b>	recommended: 5 to 25 °C maximum: -20 to 60 °C
<b>Ambient Pressure:</b>	600 to 1250 hPa
<b>Humidity:</b>	20 to 80 % RH (10 to 98 % in short term)
<b>Shelf Life:</b>	< 3 months recommended

### :: RELATED PRODUCTS ::

Product	Part-No.	Housing Colour
CO - Sensor D-31	47 00 35	grey

*This data sheet is subject to change without prior notice. [D-31-Rev\_012011.doc]*

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