Product Specification of:

O_2 - Scuba Diving Sensor / Type D – 06

.: KEY FEATURE :.

Dual-cathode galvanic gas sensor with an extra water repellent head space.

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



Electrical Connector:	gold-plated slip rings
Measurement Range:	0 to 100 Vol.%
Sensor Lifetime:	< 3 years @ ambient air
Expected Operating Life:	~ 500,000 Vol.% h
Intitial Output Signal:	14.5 to 20.0 mV @ dry ambient air, 600 Ohm load
Response Time t_{90}:	< 12 s
Drift:	< 1 % volume O_2 / month @ air, averaged across 12 months
Linearity Error:	< 3 % @ 100 % O_2, applied for 5 min
Output Differential:	U1 – U2 < 10% < U1 + U2 @ 20 % to 100 % O_2
Zero Offset Voltage:	< 200 µV in 100 % N_2, applied for 5 min
Operating Temperature:	0 to 45 °C
Pressure Range:	600 to 1750 hPa
Influence of Humidity:	-0.03 % rel. O_2 reading per % RH
Interferences:	none to He, H_2 and CO
Weight:	approximately 20 g
Material in Contact with Media:	PA, PPS, PTFE, stainless steel

.: STORAGE CONDITIONS :.

Temperature Range:	recommended: 5 to 30 °C maximum: -20 to 50 °C
Ambient Pressure:	600 to 1750 hPa
Humidity:	up to 100 % Rh
Shelf Life:	< 6 months recommended

.: RELATED PRODUCTS :.

Product	Part-No.	Housing Colour
O_2 - Sensor D-06	41 00 56	white

IT Dr. Gambert GmbH .: Hinter dem Chor 21 .: 23966 Wismar .: Germany
Phone: +49 (0)3841 220 050 .: Fax: +49 (0)3841 220 052 2 .: E-Mail: sales@itg-wismar.de **www.itg-wismar.de**