

Product Specification of:

## O<sub>2</sub> - Medical Sensor / Type M – 04



### .: KEY FEATURE .:

**Long life gas sensor that shows high signal stability at low cross interferences to anesthesia gases combined with superior linearity over the entire range.**

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

<b>Measurement Range:</b>	0 to 100 Vol.%
<b>Expected Operating Life:</b>	~ 1,000,000 Vol.% h
<b>Sensor Lifetime:</b>	< 6 years @ ambient air
<b>Electrical Connector:</b>	3-pin Molex® gold plated
<b>Initial Output Signal:</b>	13.0 to 16.5 mV @ dry ambient air
<b>Response Time <math>t_{90}</math>:</b>	< 12 s
<b>Drift:</b>	< 1 % Vol. O <sub>2</sub> /month @ air, averaged across 12 months
<b>Operating Temperature:</b>	10 to 40 °C
<b>Pressure Range:</b>	700 to 1250 hPa
<b>Linearity Error:</b>	≤ 3 % @ 100 % O <sub>2</sub> , applied for 5 min
<b>Zero Offset Voltage:</b>	≤ 200 µV in 100% N <sub>2</sub> , applied for 5 min
<b>Repeatability:</b>	± 1 % Vol. O <sub>2</sub> @ 100 % O <sub>2</sub> , applied for 5 min
<b>Influence of Humidity:</b>	- 0.03 % rel. O <sub>2</sub> reading per % RH
<b>Recommended Load Resistor:</b>	≥ 10 kOhm
<b>Temperature Compensation:</b>	NTC
<b>Interferences:</b>	according to DIN EN ISO 21647 and ISO 7767



### .: STORAGE CONDITIONS .:

<b>Temperature Range:</b>	recommended: 5 to 30 °C maximum: - 20 to 50 °C
<b>Humidity:</b>	up to 100 % RH
<b>Shelf Life:</b>	< 6 months recommended
<b>Weight:</b>	approximately 24 g
<b>Material in Contact with Media:</b>	PA, PPS, PTFE, stainless steel

### .: RELATED PRODUCTS .:

Product	Part-No.	Housing Colour	Other Specifics
O <sub>2</sub> - Sensor M-04	41 00 06	white	
O <sub>2</sub> - Sensor M-04	41 01 06	white	with flow diverter
O <sub>2</sub> - Sensor M-04T	47 00 04	translucent	
O <sub>2</sub> - Sensor M-04C	41 02 06	white	response time $t_{90}$ : < 6 s
O <sub>2</sub> - Sensor M-04CT	41 03 06	translucent	response time $t_{90}$ : < 6 s

*This data sheet is subject to change without prior notice. [M-04\_Rev\_102011.doc.doc]*

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