

Product Specification of:

## O<sub>2</sub> - Medical Sensor / Type M-15M



### :: 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.%O <sub>2</sub>
<b>Expected Operating Life:</b>	> 750,000 Vol.% O <sub>2</sub> h
<b>Sensor Lifetime:</b>	< 3 years @ ambient air, depending on application
<b>Electrical Connector:</b>	3.5 mm mono jack
<b>Initial Output Signal:</b>	8.0 to 13.0 mV @ dry ambient air
<b>Output Signal Range:</b>	5 to 15 mV @ dry ambient air
<b>Response Time <math>t_{90}</math>:</b>	< 12 s
<b>Output Signal Drift:</b>	< 1 Vol.%O <sub>2</sub> / month @ air, averaged across 12 months
<b>Temperature Compensation:</b>	NTC on sensor PCB
<b>Operating Temperature:</b>	0 to 40 °C
<b>Ambient Pressure Range:</b>	600 to 1750 hPa
<b>Zero Offset Voltage:</b>	< 0.3 Vol.%O <sub>2</sub> @ 100 Vol.%N <sub>2</sub> , applied for 5 min
<b>Linearity Error:</b>	< 3 % @ 100 Vol.%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>Interferences:</b>	according to DIN EN ISO 80601-2-55
<b>Weight:</b>	approximately 26 g
<b>Material in Contact with media:</b>	PA, PPS, PTFE, stainless steel



### :: STORAGE CONDITIONS ::

<b>Temperature Range:</b>	recommended: 5 to 30 °C maximum: -20 to 50 °C
<b>Ambient Pressure:</b>	600 to 1750 hPa
<b>Humidity:</b>	< 98 % RH, non-condensing
<b>Shelf Life:</b>	< 6 months recommended

### :: RELATED PRODUCTS

Product	Part-No.	Housing Colour	Other Specifics
O <sub>2</sub> - Sensor M-15M	41 08 23	white	-

*This data sheet is subject to change without prior notice. [M-15M\_Rev03-2018\_0411.doc]*

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