

Product Specification of:

## O<sub>2</sub> - Medical Sensor:

## Type: M-04

Part. No.: 41 00 06

Key Features: Long life cell 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% rel. H. and 1013 mBar

Electrical Connector:	3-pin Molex
Measurement Range:	0 to 100 Vol.%
Nominal Sensor Life:	more than 1 000 000 Vol.% h
Expected Operating Life:	less than 6 years @ ambient air
Output Signal:	13 to 16.5 mV @ dry ambient air
Response Time $t_{90}$ :	less than 12 sec
Drift:	less than 1% volume O <sub>2</sub> / month @ air
Operating Temperature:	10 to 45°C
Pressure Range:	600 to 1750 hPa
Linearity Error:	less than 2% @ 100% O <sub>2</sub> applied for 5 min
Zero Offset Voltage:	less than 200 $\mu$ V in 100% N <sub>2</sub> , applied for 5 min
Repeatability:	$\pm$ 1 % volume O <sub>2</sub> @ 100% O <sub>2</sub> , applied for 5 min
Influence of Humidity:	-0.03% rel. O <sub>2</sub> reading per % r.H.
Recommended Load Resistor:	more than 10 kOhm
Temperature Compensation:	NTC
Interferences:	< 0.3 % O <sub>2</sub> response to: <ul style="list-style-type: none"> <li>10.0 % CO<sub>2</sub> balance N<sub>2</sub></li> <li>80.0 % N<sub>2</sub>O balance N<sub>2</sub></li> <li>7.5 % Halothane balance N<sub>2</sub></li> <li>7.5 % Isoflurane balance N<sub>2</sub></li> <li>7.5 % Enflurane balance N<sub>2</sub></li> <li>7.5 % Sevoflurane balance N<sub>2</sub></li> <li>20.0 % Desflurane balance N<sub>2</sub></li> </ul>

### Storage Conditions

Temperature Range:	recommended: 5 to 30°C maximum: - 20 to 50°C
Ambient Pressure:	600 to 1750 hPa
Humidity:	up to 100% rel. H.
Shelf Life:	less than 6 months
Weight:	approximately 24 g
Material in contact with media:	PA, PPS, PTFE, stainless steel
Warranty Period:	16 months
Colour:	white housing

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## Outline Dimensions and Pin Configuration

(Dimension units are: mm)

