

Product Specification of:

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

## Type: M-10

Part. No.: 41 00 14

Key Features: Gas sensors 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:	modular jack 6P4C
Measurement Range:	0 to 100 Vol.%
Nominal Sensor Life:	more than 500 000 Vol.% h
Expected Operating Life:	less than 3 years @ ambient air
Output Signal:	8.0 to 12 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:	0 to 40°C
Pressure Range:	600 to 1750 hPa
Linearity Error:	less than 3% @ 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:	< 0.5 % 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 52 g
Material in contact with media:	PA, PPS, PTFE, stainless steel
Warranty Period:	16 months
Colour:	black housing

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## Outline Dimensions and Pin Configuration

(Dimension units are: mm)

