

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

## Type M-07



### KEY FEATURES

#### Gas sensor with a separate temperature compensation network

All characteristics are based on conditions at 25°C, 50% RH and 1013 hPa and gas flow  $\geq 2.5$  L/min.

<b>Measurement Range:</b>	0 to 100 Vol.%
<b>Expected Operating Life:</b>	> 500,000 Vol.% h
<b>Sensor Lifetime:</b>	< 3 years @ dry ambient air, depending on application
<b>Electrical Connector:</b>	4P4C Handset Modular Jack 4 Position (RJ11), Typ AMP
<b>Initial Output Signal:</b>	7.5 to 13.0 mV @ dry ambient air
<b>Response Time t<sub>90</sub>:</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>	$\leq 3$ % @ 100% O <sub>2</sub> , applied for 5 min
<b>Zero Offset:</b>	$\leq 0.3$ Vol% O <sub>2</sub> @ 100 % N <sub>2</sub> , applied for 5 min
<b>Repeatability:</b>	$\pm 1$ % 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>Temperature Compensation:</b>	NTC
<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 ( $\leq 10$ h)
<b>Ambient Pressure Range:</b>	700 to 1250 hPa
<b>Humidity:</b>	up to 100 % RH, non-condensing
<b>Shelf Life:</b>	< 6 months recommended

### RELATED PRODUCTS

Product	Part-No.	Housing Colour
O <sub>2</sub> - Sensor M-07	41 00 09	white
O <sub>2</sub> - Sensor M-07T	47 00 12	translucent
O <sub>2</sub> - Sensor M-07S	41 01 09	white
O <sub>2</sub> - Sensor M-07ST	41 02 09	translucent

[www.nrc-international.com](http://www.nrc-international.com)



NRC International GmbH

Stentenberg Str. 63  
D-51702 Bergneustadt

Phone +49(0)2261-500414  
Fax +49(0)2261-500415

[info@nrc-international.com](mailto:info@nrc-international.com)