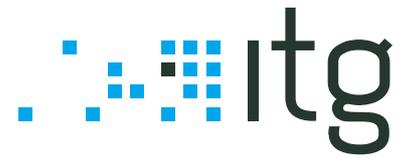


Product Specification of:

## O<sub>2</sub> - Medical Sensor / Type M – 18



### .: KEY FEATURE .:

**Gas Sensor that shows high signal stability at low cross interferences to anesthesia gases combined with a 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>           | > 500,000 Vol. % h   |
| <b>Sensor Lifetime:</b>                   | < 3 years @ ambient air  |
| <b>Electrical Connector:</b>              | 3-pin Molex®   |
| <b>Initial Output Signal:</b>             | 7.0 to 13.0 mV @ dry ambient air                                     |
| <b>Response Time <math>t_{90}</math>:</b> | < 5 s  |
| <b>Drift:</b>                             | < 1 % Vol. O <sub>2</sub> /month @ air, averaged across<br>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                           |
| <b>Weight:</b>                            | approximately 24 g   |
| <b>Material in Contact with Media:</b>    | PA, PPS, PTFE, stainless steel                                       |



### .: STORAGE CONDITIONS .:

|                           |   |
|---------------------------|---|
| <b>Temperature Range:</b> | recommended: 5 to 30 °C<br>maximum: - 20 to 50 °C |
| <b>Humidity:</b>          | up to 100 % RH                                    |
| <b>Shelf Life:</b>        | < 6 months recommended                            |

### .: RELATED PRODUCTS .:

| Product                        | Part-No. | Housing Colour | Other Specifics |
|--------------------------------|----------|----------------|-----------------|
| O <sub>2</sub> - Sensor M-18T  | 41 01 24 | translucent    |                 |
| O <sub>2</sub> - Sensor M-18CT | 47 00 39 | translucent    | US-Version      |

*This data sheet is subject to change without prior notice. [M-18\_Rev\_012012.doc]*

page 1 of 1