

OOMLF103

Oxygen Sensor

From standard sensors to customized sensors

Experienced Honeywell engineers analyze customer requirements. This input is used for different standard and OEM applications, and ongoing support is provided right up to the final integration in the solution. Honeywell designs customized sensors characterized by a maximum possible degree of precision, for example with different signal levels or temperature compensation elements.

Intended use

The Honeywell Medical Oxygen Sensors are intended as oxygen sensing component of an oxygen analyzer that measures oxygen concentration in breathing gas mixtures in the following applications:

Sensing device for oxygen in

- control device of oxygen concentrators
- medical ventilators
- anaesthesia equipment
- incubators.

The use is limited to system monitoring. The sensors are not suited for breath by breath analysis of breath gases. Please refer to the Instructions for Use! If the sensor is intended to replace the original oxygen-sensing component of an oxygen analyzer, consult the Honeywell XRL Cross Reference List for selecting the appropriate sensor.

Additional information

The Instructions for Use as well as the Honeywell XRL Cross Reference List are available under www.Honeywell.com and in the Apple App Store under Honeywell XRL as free download.

For more information please contact us!

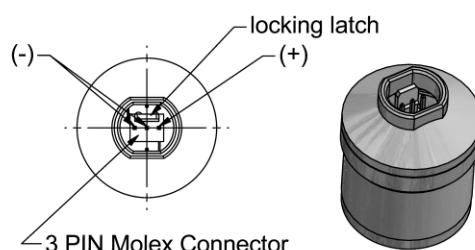
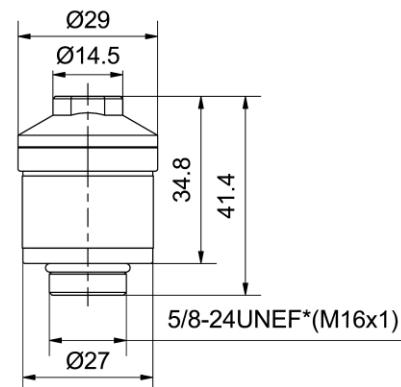
We look forward to assisting you either on the phone or in a personal talk.



Use the advantages:

- Meets ISO 80601-2-55
- Designed and manufactured according to EN ISO 13485
- Accurate and reliable response
- Resistant to N₂O
- Excellent signal stability
- High product quality
- Short delivery times
- Technical support
- Made in Germany
- FDA cleared

Mechanical drawing (dimensions in mm)



Oxygen Sensor OOMLF103 Technical Specification

CHARACTERISTIC	MEASURE	
MEASUREMENT PRINCIPLE	Galvanic fuel cell	
MEASUREMENT RANGE	0 % ... 100 % oxygen (@ atmospheric pressure)	
OUTPUT IN AMBIENT AIR	9 to 13 mV	
ELECTRICAL INTERFACE	3 pin (Molex 22-11-1031)	
ACCURACY	meets ISO 80601-2-55 requirements	All specifications are applicable at standard conditions: 1013 hPa, 25 °C dry ambient air. Technical information is subject to change without notice
REPEATABILITY	< 1% vol. O ₂ @ constant temperature and pressure	
LINEARITY ERROR	< 3 % relative	
RESPONSE TIME	< 9sec. to 90 % of final value	
ZERO OFFSET VOLTAGE	< 0,5% volumen O ₂ in 100" N ₂ , applied for 5 min	
CROSS INTERFERENCE	on request	
INFLUENCE OF HUMIDITY	- 0.03% rel. per % RH at 25°C	
PRESSURE RANGE	0.6 bar ... 2 bar (ppO ₂ 0 ... 1250 mbar O ₂)	
INFLUENCE OF PRESSURE	proportional to change in oxygen partial pressure	
OPERATING HUMIDITY	0 - 100% RH non-condensing	
OPERATING TEMPERATURE	0°C to 50°C	
TEMPERATURE COMPENSATION	Built-in NTC compensation	
EFFECT OF TEMPERATURE COMPENSATION (STEADY STATE)	between +25 °C and +40 °C: 3% relative error between 0 °C and +50 °C: 8% relative error	
LONG TERM OUTPUT DRIFT	< 1% vol. oxygen per month in air averaged about 12 month	
STORAGE TEMPERATURE	-20 °C ... +50 °C	
RECOMMENDED STORAGE	+5°C to +15°C	
RECOMMENDED LOAD	≥100 kOhms	
WARM-UP TIME	< 30 minutes, after replacement of sensor	
WEIGHT	approximatly 23 grams	
NOMINAL SENSOR LIFETIME	≥ 500.000 % vol. oxygen hours	
RESTRICTION OF HAZARDOUS SUBSTANCES	Compliant to EU RoHS Directive 2011/65/EU as amended by Directive 2015/863	
PART NUMBER	E1002533	



For suitable accessories and sensors please refer to the Honeywell Cross Reference List under www.Honeywell.com and in the Apple App Store under Honeywell XRL as free download.

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship during the applicable warranty period. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgment or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items that Honeywell, in its sole discretion, finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages. While Honeywell may provide application assistance personally, through our literature and the Honeywell web site, it is buyer's sole responsibility to determine the suitability of the product in the application. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this writing. However, Honeywell assumes no responsibility for its use.

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