pyroscience
sensor technology

FDO2 Optical Oxygen Gas Sensor

Forget about replacing oxygen sensors

- high-accuracy
- low drift
- factory calibrated
- long life, non-depleting
- fast response (t63<2s)
- digital output of oxygen partial pressure
- temperature compensation
- low power consumption
- lead free

- incubators
- oxygen concentrators
- inert gas processing chambers (glove boxes)
- exhaust gas measurement
- inert gas monitoring
- portable equipment
- monitoring fruit ripening and transport

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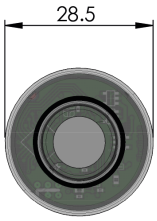

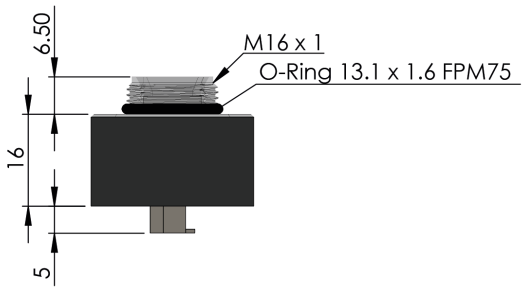

Ratings

Solvent	in units of % O_2*	in units of hPa
Measuring range, Typical	0-50% O_2 (gas)	0-500 hPa
Measuring range, Maximum	0-200% O_2 (gas)	0-2000 hPa
Accuracy at 10°C – 40°C	±0.02% O_2 at 1% O_2 ±0.5% O_2 at 20% O_2	±0.2 hPa at 10 hPa ±5 hPa at 200 hPa
Resolution	±0.01% O_2 at 1% O_2 ±0.1% O_2 at 20% O_2	±0.1 hPa at 10 hPa ±1 hPa at 200 hPa
Detection limit	0.01% O_2	0.1 hPa
Response time (t_{63})	< 2 sec.	
Drift at 25°C	<1% O_2 / year at 20% O_2	
Max. number of measurements	>500 million	
Lifetime	>5 years	
Temperature range during operation	-10 to 60°C	
Supply Voltage	3.3 – 5.0 V DC	
Standby Current	ca. 8 mA	
Communication Interface	3.0 V UART (5 V tolerant)	
Connector	Molex 560020-0420	

* at 1013 mbar ambient gas pressure
**For typical indoor environmental conditions a 10 year operating life is expected

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