

TEC-OXY-METAL

Oxygen measurement modules



TEC-OXY-METAL is the new module of Tecnosens for oxygen measurement based on zirconium oxide sensor. The range of measurement goes from 10ppm up to 96%, allowing the integration of the product in several applications.

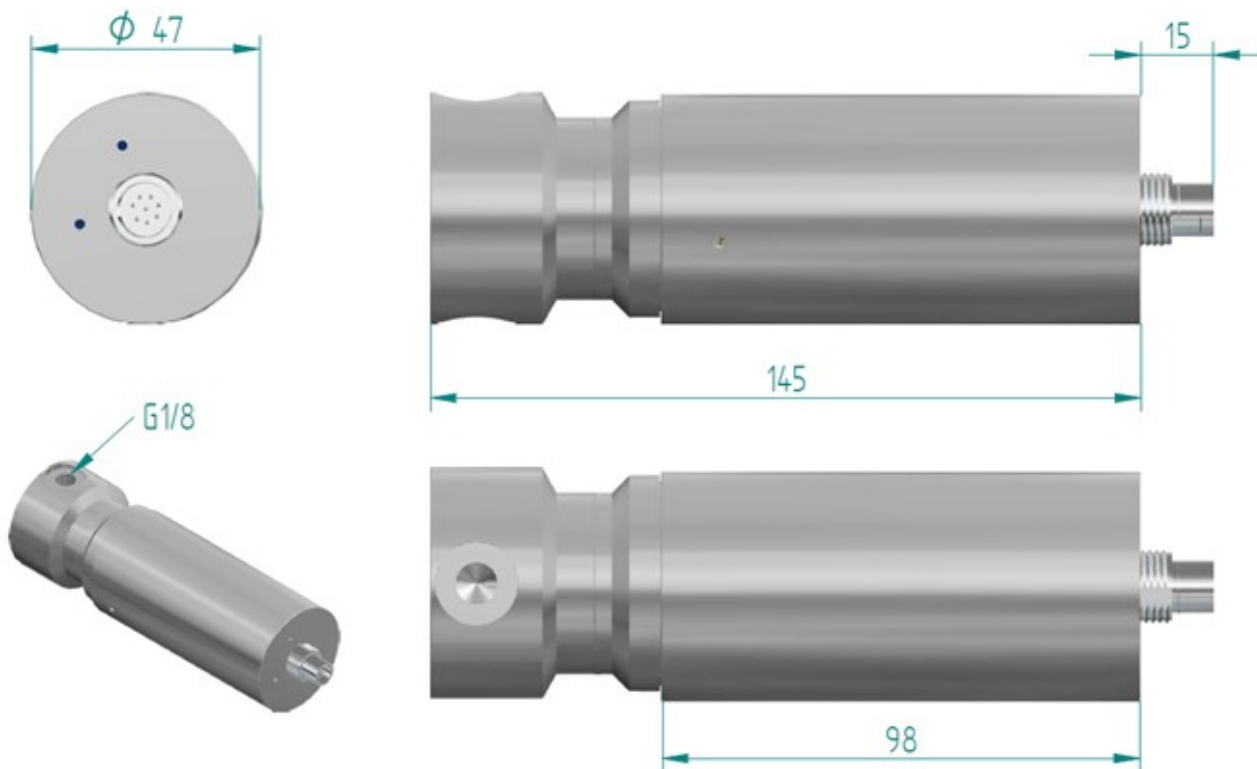
The metal housing and the mechanical configuration allow an easy integration and connection to the system.

The technology of zirconium oxide allows to make measurements with high precision and good stability during time, reducing the maintenance and the replacement of the sensing element, a great advantage with respect to other technologies.

Our board allows the management of the oxygen sensor and supplies a linear output related to the measured oxygen concentration. The electronic on board keeps the sensing element temperature constant, in order to guarantee the correct operation independently from temperature ambient conditions.

Features	TEC-OXY-METAL
Dimension	L: 160 mm – Diameter: 47 mm
Gas connection	G1/8
Electrical connection	Standard M12 connection, 1 meter length
Power Supply	12 - 24VDC
Power consumption	< 5W
External analogue Output	Current 4-20mA, Voltage 0-10V, RS485
Operating temperature	-10 to 50 C°
Operating humidity	0 to 85% RH (Without vapor condensation)
Gas flow	>0,2 l/min and <3 l/min recommended 1l/min
Guarantee Time	1 year

Technical drawing



Board range selection guide

Code	Range	Accuracy
TEC-OXY-METAL-1000	10-1000 ppm	± 5 % FS
TEC-OXY-METAL-01	0.05-1 %	± 5 % FS
TEC-OXY-METAL-02	0.05-2 %	± 3 % FS
TEC-OXY-METAL-03	0.05-3 %	± 3 % FS
TEC-OXY-METAL-05	0.05-5 %	± 2 % FS
TEC-OXY-METAL-025	0.1-25 %	± 1 % FS
TEC-OXY-METAL-095	0.1-95 %	± 0.5 % O ₂
TEC-OXY-METAL-096	0.1-96 %	± 0.5 % O ₂

Main applications

**Oxygen
and
Nitrogen
Generators**



**3D
Metal
Printes**



**Food
Storage
and
Controlled
Atmosphere**



**Fire
Prevention
Systems**



**Gas
Analysis
and
Supplying**

Tel **+39 030 3534144**
Fax **+39 030 3530815**

email: info@tecnosens.it

Your global partner for sensing innovation

The wide portfolio of specialized sensors and OEM solutions allows Tecnosens to give wide support to all the companies from start up to market leaders which want to realize innovative products with high technological content.

Thanks to the know-how acquired in more than 25 years of activity, our team of engineers is ready to support the customer in the rapid and efficient sensors integration, in order to satisfy the always more rapid road map and offer to the market innovative products.

Direct link to your solution



Gas



Pressure



Humidity



Temperature



Vision Systems



Optoelectronics



Tecnosens