



KEY FEATURES

PPM LEVEL

The specific and unique electrochemical sensors guarantee a precise and stable measurement of O₂ values in the PPM range, from 0 up to 1000ppm.

TWO DIFFERENT SENSORS

You can combine the board with two different sensors: one with an optimal range of 0 to 10ppm and another covering 0 to 500ppm. Both sensors ensure overload up to 1000ppm.

WIDE OUTPUT RANGE

The board can be supplied with various outputs, both digital and analogue including ModBus TCP-IP, RS485 and 4-20mA.

COMPETITIVE PRICE

Our solution provides a cost-performance ratio that offers a significant advantage over other market alternatives.

PRODUCT APPLICATIONS

- Nitrogen generator
- Fruit Storage
- Laser welding and cutting
- Semiconductor fab
- Pharmaceutical applications
- Aerospace
- 3D Metal printing

DESCRIPTION

The O₂ PPM BOARD ensures precise and stable O₂ measurements in the PPM range, up to 1000ppm, thanks to unique electrochemical sensors. The board supports two sensor options: one for 0-10ppm and another for 0-500ppm, both with overload up to 1000ppm. It offers a wide range of output options, including ModBus TCP-IP, RS485, and 4-20mA analog connection, ensuring seamless integration. With its excellent cost-performance ratio, our solution stands out as a highly competitive alternative in the market.

TECHNICAL SPECIFICATIONS

Measurement range:	Depending on the installed sensor (see tables below) 24bit acquisition delta-sigma ADCs with PGA
Product features:	<ul style="list-style-type: none"> • USB for Firmware updates • 32Mbit Internal flash memory • Temperature and RH sensor (Accuracy ΔRH = \pm 1.0 %RH, ΔT = \pm0.1 °C) • 4 DIP-Switch for custom personalization • Button and LEDs for user interface
Interface:	ModBus TCP/IP, RS485
Power consumption:	200 mA in operational mode
Power supply:	24V dc \pm 10%
Output	4-20 mA
Operating temperature:	-20°C to +50°C
Dimensions:	110 x 75 x 20 mm
Weight:	50 g
Certifications:	CE, FCC, RoHS

O2PPM BOARD Standard Range

Measurement Range	0-500ppm O ₂
Max Overload	1000ppm
Purge time to <1000ppmO₂	<5 mins
Purge time to <100ppmO₂	<60 mins
Temperature Range Continuous	-20°C to +50°C
Expected Operating Life @1000ppm	Over 18 Months
Accuracy	1 \pm 0.5 PPM

O2PPM BOARD Ultra Low Range

Measurement Range	0-10ppm O ₂
Max Overload	1000ppm
Purge time to <1000ppmO₂	<5 mins
Purge time to <100ppmO₂	<2 hours
Purge time to <10ppmO₂	<6 hours
Temperature Range Continuous	-20°C to +50°C
Expected Operating Life @1000ppm	Over 18 Months
Accuracy	0.2 \pm 0.1 PPM