

TECWELD O₂ + CO₂ WELD PURGE MONITOR



Accuracy, Precision, and Sensitivity Matters.

The TecPen Oxygen and Carbon Dioxide Weld Purge Monitor is designed to provide accurate measurements down to 0% oxygen and up to 100% carbon dioxide when back purging with argon and CO₂ gas mix during welding. This portable O₂ and CO₂ analyzer will verify that there is no oxygen during argon back purging for TIG welding, or argon CO₂ blend for MIG welding.

Features

- Provides accurate measurements down to 0% O₂
- Measures CO₂ levels up to 100%
- Prevents welding defects
- Can be used immediately, does not require warm-up time
- Data logging capabilities with USB transfer for Quality Control/Inspection
- Ideal for MIG/TIG welders and industrial applications or environments

Applications



Welding



Fabrication



Industrial



Analysis

TECHNICAL DATA

TecWeld O₂ + CO₂ Weld Purge Monitor

Measurement Range	0 – 2000 ppm
Accuracy @ 0-500 ppm:	2% MEV**
Accuracy @ 500-1000 ppm:	3% Mv*
Accuracy @ 1,000-2,000ppm:	4% Mv*
Resolution:	1ppm
Response time at 25°C:	< 15 seconds
Pump flow:	400mL/min.
Temp. range Min./Max:	14°F-140F° (-10°C-60°C)
Medium:	Gas
Power Supply:	5V USB and LiPo Battery
Storage Capacity:	4GB
Rechargeable battery life:	> 3 hours per charge
Data Interface:	USB
Temperature compensation:	50 - 86°C (10 - 30°C)
Display:	OLED
Cleaning:	no organic solvents, 40% EtOH
Device Weight:	0.50 lbs.
Device Dimensions:	7 x 2 x 1 inch
Protection class:	IP65
Manufacturer service Interval:	3 years
Sensor cap replacement interval:	2 years
Recommended customer calibration interval:	6 months

*Mv = measured value

**MeV = measured end value



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