DE-OX® ZIP PRO OXYGEN ANALYZER

INSTRUMENT MAIN FEATURES:

DE-OX® ZIP PRO represents the simplest and up-to-date measurement instrument for the analysis of oxygenate mixed gas. Unique features include two audible alarms (minimum and maximum), standard analog 4-20 mA and Open Collector outputs.
DE-OX® ZIP PRO has been especially designed and manufactured for the analysis of binary and ternary gas mixtures like Nitrox, Heliox and Trimix.
DE-OX® ZIP PRO can be successfully used for checking oxygen content into any environment for safety reason (diffusion mode).
DE-OX® ZIP PRO comprises in just one integrate device the oxygen sensor, the electronic board and the battery. The instrument can be automatically calibrated in any known gas mix for giving the less error. It can be used for continuously reading during mixed gas filling. It can alert and help in switching off the compressor if the oxygen value goes out the set alarms range (for instance 40% oxygen). It can be installed into a panel or in different configurations.

- Full digital measurement instrument.
- Display of oxygen percentage in the range 0.0 - 100.0%.
- 0,1 % of volume resolution (0.01% below 10.0% optional)
- Automatic calibration in air or in any known mix.
- Adjustable calibration span value.
- Calibration of zero with 0% O2 sample gas (optional)
- Sensor and analyzer autosetting.
- Long life electrochemical oxygen sensor.
- Minimum and maximum audible and visible alarms.
- Adjustable alarm values.
- Analog 4-20 mA output for external devices.
- Adjustable full scale value.
- Open Collector output.
- Battery low indicator.
- milliVolt sensor output reading.
- Standard 9 Volt transistor battery.
- External power supply from 8 to 18 VDC. Power consumption 50 mA ca.
- Simple battery and sensor replacement.
- Direct connection to every kind of tank valve with TEMC® rubber cup.
- Soft protection and transport bag.
- Numeric display of 50x35mm.

- Dimensions: max 8,5x7,5 cm weight 250 grams.

OXYGEN SENSOR SPECIFICATIONS

- Long life medical grade galvanic cell type
- Measurements range 0÷100% of oxygen
- No effect with gas like CO, CO2, NOx, N2, H2, Ar, He.
- Operating humidity from 0 to 95% non condensing. Prevent condensation on the surface of the sensing surface.
- Operating temperature range from 5°C (41F) to 40°C (104F).
- Storage temperature range from -15°C (5F) to 50°C (122F).
- Do not expose sensor to a biased voltage or to a short circuit.
- Response Time <15 sec for 90% response (or better, up to <5 sec), <25 sec for 97% response.
- Accuracy ±2% over full scale.
- Linearity within ±2% over full scale.
- Stability <1% drift in 8 hours at constant temperature and pressure.
- Output voltage 11±3 milliVolt at 21% oxygen at 23°C (74F) and 60% RH and at 1 ata .
- Do not try to disassemble the sensor.
- Sensor life: up to 48 months under normal operating conditions in air. Sensor must be replaced when unable to calibrate or to analyze mixed gas correctly.

ELECTROMAGNETIC COMPATIBILITY TEST FOR CE MARKING:

- CEI EN 61326-1 Electrical equipment for measurement, control and laboratory use - EMC requirements
- CEI EN 55022 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
- CEI EN 61000-4-2Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test

Warranty

TEMC®, whose policy is one of continuous quality improvement, reserves the right to modify the technical characteristics of the instrument and manual without prior notice. ***TEMC***® warrants that its DE-OX ZIP computer will be free from defects on material and workmanship for a period of twelve (12) months from the date of delivery, with the exception of sensor not manufactured in-house and that is warranted for six (6) months.

TEMC
Via Donna Prassede 5/A
20142 MILAN ITALY
Tel/Fax +39 02 8463648 or +39 080 4490264
info@temc.it
www.temc.it

DE-OX
TEMC