DT-OEG testing device

Oxygen gas sensor testing device for OEG2070 and OEG2071

The DT-OEG device is a test box allowing the operator to ensure that the oxygen sensor is in perfect working order after a maintenance phase or after a prolonged storage period.

BENEFITS

> Easy to use

> Reactivity in the face of unavailability of the TEG oxygen measurement

> Validation of oxygen sensor regeneration

> Maintenance of oxygen sensor performance during storage under nitrogen

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GOAL

The availability of the TEG gas oxygen measurement is essential, especially during unit shutdown phases where this measurement is required.

Experience feedback shows that maintenance of the oxygen sensor can create a risk of measurement unavailability.

The DT-OEG is a tool allowing the operator in a controlled area to ensure that the oxygen sensor is in perfect working order after maintenance and after prolonged storage.

SOLUTION

The DT-OEG is an Oxygen sensor test box which is used during a maintenance phase.

This box is used to check the continuity and insulation of the sensor and to validate the correct regeneration of the O2 sensor: calculation of the slope and the residual O2 under nitrogen.

The sensor thus regenerated can then be installed in the TEG plate in a controlled area without risk of additional unavailability.

It also makes it possible to store a regenerated sensor under an inert atmosphere for a few days, this sensor being immediately usable.

On a dry O2 sensor, without membrane or electrolyte:

The oxygen sensor is installed in the circulation chamber and the operator checks the insulation and continuity with a multimeter connected to the electrical control terminals.

On a regenerated O2 sensor:

The Oxygen sensor is installed in the circulation chamber and the operator can calibrate the O2 sensor with air or a calibration gas, and test the accuracy of the measurement at low O2 values with the passage of an inert gas.

The DT-OEG provides the following measurements and functions:

- Current and temperature acquisition
- Calibration: INIT-ETAL function: Calculation of the slope of the sensor
- Display of O2 concentration and temperature
- Possibility of keeping the O2 sensor after validation for a few days in an inert atmosphere

TECHNICAL SPECIFICATIONS

Operating environment, interface and I/O	
Ambient temperature	10 - 40°C
Storage temperature	10 - 40°C
Maximum humidity level	95%
Protection sign	IP65
Radiation resistance	<10µSv/h
Power supply	220V AC
IHM	Color touch screen control
Input/Output	Gaz via Staubli RBE 03 self-sealing connectors
Dimensions and weight	
Dimensions (L x H x P)	304 x 117 x 294 mm
Weight	~8 kg

SYSTEM FUNCTIONS

1. Electrical tests of the dry sensor: continuity & insulation,

2. Calibration of the O2 sensor after regeneration with air or with an O2 standard,

3. Storing the O2 sensor for a few days in an inert atmosphere.

CONTACT

14, Place Marcel Dassault - BP 70048 - 31702 BLAGNAC CEDEX (France)

Tel. : +33(0) 5 34 36 10 00 | **E-mail :** sales-team@arcys.fr

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