

Oxygen Sensor

Description



The O₂ Sensor controls the **PermaPrevent[®]** System. The amperometric Sensor is based on a zirconia electrolyte cell. The Sensor is equipped 4 programmable potential free contacts (programmable with optional software) and one contact for system fault. NO calibration gas needed. Calibration via USB and software. All system information is shown in the high resolution OLED display. An integrated Data-Logger saves data over a period of more than 2 years on a SD-memory card. The information can be read as a *.csv file directly in Microsoft Excel or other adequate programs. Network connections between Sensors are integrated. One Sensor is working as MAIN the others are working as SLAVE Sensors. Equipped with two CAT5 connection points, allowing connection for more than one OLED Display. The programming will be made with the BEST-O2-Tool via USB. The OLED technology consumes excessively low current however good legibly in daylight conditions. No backlight needed. The status of the relays are also shown on the display, presenting a good overview of the system status.

- Wide measuring range from 0,1 to 25% Oxygen
- High accuracy from 0,1%
- No ambient temperature sensitivity
- Low cross sensitivity
- Long service life
- Single point calibration
- Time to start (heating) > 1 min
- Connectivity via network
- Digital connections to external points
- Integrated control electronic for N₂ production



Relay status on the Display
 WA: Warning High Level
 N2: N₂ demand
 AH: Setpoint
 AL: Alarm Low Level
 ER: Hardware Error

Technical Data: PP-O2-TO8, with Display

	O ₂ -Sensor
Power Supply	24 VDC
Power consumption	5 Watt
Sensor temperature	max. 250 °C
Dimensions	190 x 170 x 105 mm
Heating time	1min
Reaction time	2-10 sec
Accuracy	+/- 0,1%
Outputs	4 x programmable + 1x Fault

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