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UMSITEC
Umwelt- und Sicherheitstechnik

OPERATING INSTRUCTION

OXYGEN GAS SENSOR 403 E O2

VN 10 04 03



GMF 403 E

Attention!

The devices may only be operated if this operating instruction has been understood and is applied. The annex "Safety for installers and operators" must be observed!

Sensoric

The sensor GMF 402 E is operated with electrochemical sensors, whose signal is converted to the measured current range of 4-20mA.

The measuring range of the gas sensor GMF 403 E O2 25 is 0..25 vol% O2.
The measuring range of the gas sensor GMF 403 E O2 100 is 0..100 vol% O2.

The sensors provide a corresponding output signal, which can generate in an evaluation unit via a load resistor to ground an usable voltage signal.

Mounting

The sensor is suitable for a wall or ceiling mounting.

Sensor connection

In order to supply the gas sensor GMF 402 E an unregulated DC voltage from 12.5 - 30V is required. The maximum load at 12.5 volts is 400 ohm.

The shielded cable JY (St) 2x2x0.8 mm can be used as sensor supply cable
The wire colors can be assigned as follows :

red => +24V (KI 1), white => 4-20mA (KI 2), black => 0 V (KI 3), yellow => PE (KI 4)

Wenn der Messfühler auf Mauerwerk angebracht ist, wird der Beidraht am Auswertegerät mit der gelben Ader verdreht und an Klemme 4 (Schutzleiter PE) angeschlossen.

Der Beidraht ist im Kabel mit der Abschirmung verbunden.

Ist das Messfühlergehäuse auf geerdeten Stahlträgern angebracht, darf der Beidraht und die gelbe Ader für Klemme 4 (PE) nicht am Auswertegerät angeschlossen werden.

On the sensor GMF 402 the drain wire must be twisted with the yellow wire and have to connect to the metal case.

WICHTIG: When installing make sure that all the bar drain wire cannot come into contact with the circuit.

Commissioning

The setting of the sensor has to be checked during commissioning by a test gas feeding.

Maintenance

To maintain the functional reliability a maintenance at certain intervals is required. The maintenance interval can be read off on the inspection sticker on the evaluation unit. There is a maximum of 1/2 year.

Decommissioning

Is the sensor for longer than 4 weeks off, it must be checked after a week uptime with test gas or be recalibrated.

Subject to technical changes

Status: 24.11.04