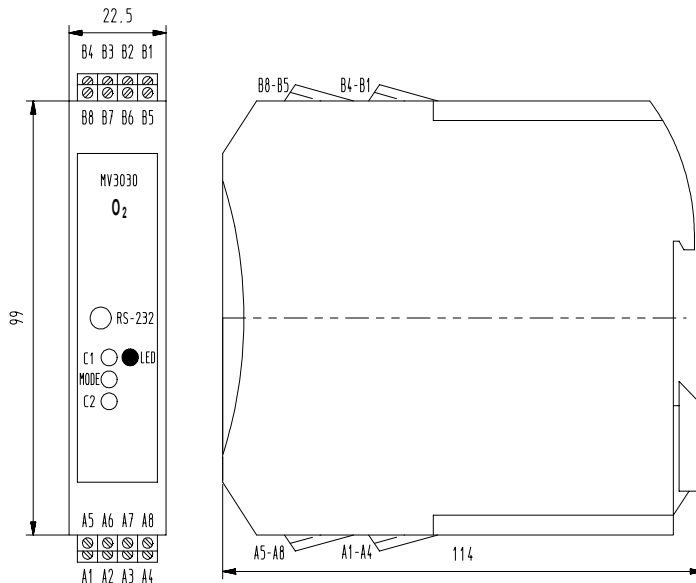


OXYGEN TRANSMITTER MV 3030

06/04



Dimensions: mm

The Oxygen Transmitter MV 3030 realises reliable processing of oxygen concentration, percent saturation, or oxygen partial pressure and temperature in connection with a membrane covered amperometric oxygen sensor and a integrated temperature sensor.

The transmitter features programmable calibration functions, automatic temperature compensation, automatic air pressure compensation (optional), easy installation and programming by means of a RS-232 interface, high functionality and a integrated limit relay output.

Input signal terminals:

A1	Cathode	A5	Pt 1000 (1)
A2	Cathode	A6	Pt 1000 (1)
A3	Anode	A7	Pt 1000 (2)
A4		A8	Pt 1000 (2)

Power supply and output signal terminals:

B1	Power supply AC/DC	B5	output 1 referred to GND
B2	Power supply GND	B6	output 0 referred to GND
B3	Power supply GND	B7	Relay output clos. contact
B4	Power supply AC/DC	B8	Relay output clos. contact

Specifications

Measuring ranges

0 ... 200 % saturation, 0 ... 20 mg/l; -10 ... 130 °C

Configuration

via RS-232 interface in connection with a configuration software program

- Measuring parameter selection; scaling and determining of the analogue output signals
- Calibration menu, determination of calibration points (single-point calibration)
- Automatic temperature compensation (adjustment B-values); air pressure compensation (optional, MV 3030-LK)

Buttons functions

MODE: Change into calibration mode

C1, C2: Calibration values (pre-adjustment C1: 100 % saturation for air calibration and measurement in gases; C2: 102 % saturation for air calibration and dissolved oxygen measurement in water)

Indication

multi-coloured LED (stable value signalisation)

LED yellow: Calibration LED green: Measurement LED red: Calibration error

Output signals

2 x 0(4) ... 20 mA or 0 ... 5 V, isolated; RS-232

Relay output

closing contact max. 125 V AC, 60 V DC; 30 VA

Power supply

15 ... 24 V AC/DC, about 1.5 VA

Ambient temperature

0 ... 50 °C

EMC

acc. EN 61326 class B

Enclosure

plastic case for mounting on rail tracks DIN EN 50022-35, protection degree IP 40

Electrodes / Sensors

Membrane covered amperometric oxygen sensor with integrated temperature sensor Pt 1000 (special version for Pt 100)

Electrical connections

mountable screw-terminals for wires cross section 0.2...2.5 mm²; 3-pins socket for RS-232 cable connector; optional rail track bus-connector

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