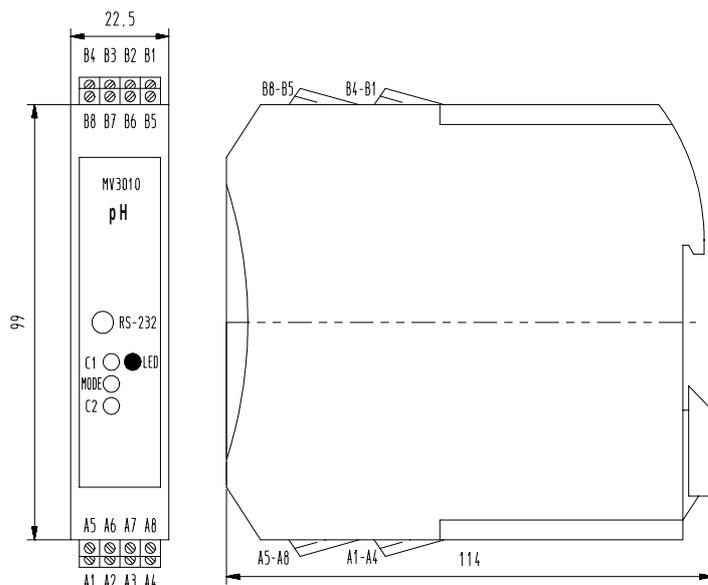


pH TRANSMITTER MV 3010

06/04



Dimensions: mm

The pH Transmitter MV 3010 realises reliable processing of pH and temperature in connection with a pH combination electrode, a pH combination electrode with integrated temperature sensor, a separated measuring and reference electrode and a temperature sensor.

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

Input signal terminals:

| | | | |
|----|---------------------|----|-------------|
| A1 | Guard | A5 | Pt 1000 (1) |
| A2 | Measuring electrode | A6 | Pt 1000 (1) |
| A3 | Guard | A7 | Pt 1000 (2) |
| A4 | Reference electrode | 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

pH 0 ... 14; -10 ... 130 °C

Configuration

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

- Scaling and determining of the analogue output signals
- Calibration menu, determination of the calibration points (two-points calibration)
- Temperature compensation

Buttons functions

MODE: Changing into calibration mode

C1, C2: Calibration values (pre-adjustment C1: buffer solution pH 6.87 (25 °C); C2: buffer solution pH 4.01 (25 °C))

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

pH combination electrode; pH combination electrode with integrated temperature sensor; separated measuring and reference electrode; 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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