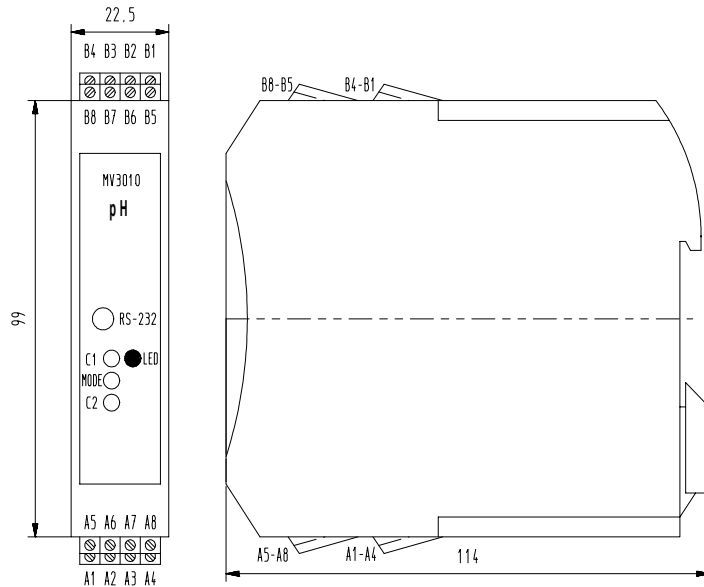


# pH TRANSMITTER MV 3010

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 mm<sup>2</sup>; 3-pins socket for RS-232 cable connector; optional rail track bus-connector

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