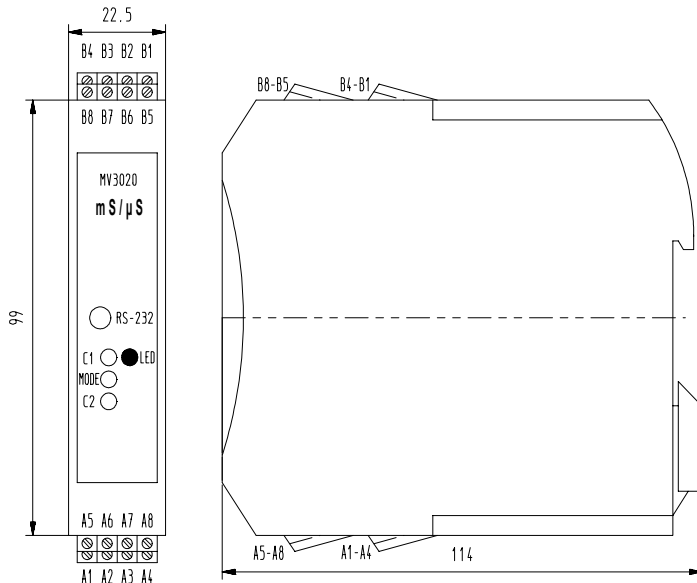


CONDUCTIVITY TRANSMITTER MV 3020

06/04



Dimensions: mm

The Conductivity Transmitter MV 3020 realises reliable processing of conductivity and temperature in connection with a two-electrode cell with cell constant 1 cm^{-1} or 0.1 cm^{-1} and an integrated or separated temperature sensor.

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

Input signal terminals:

A1	measuring electrode (screen)	A5	Pt 1000 (1)
A2	measuring electrode	A6	Pt 1000 (1)
A3	measuring electrode (screen)	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

2 ... 200 $\mu\text{S/cm}$, 0 ... 2 mS/cm , 0 ... 20 mS/cm , 0 ... 100 mS/cm ; -10 ... 130 $^{\circ}\text{C}$

Configuration

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

- Measuring range selection; scaling and determining of the analogue output signals
- Calibration menu, determination of calibration points (single-point calibration)
- Automatic temperature compensation, linear temp. coefficient 0...5.5 %/K

Buttons functions

MODE: Change into calibration mode

C1, C2: Calibration values (pre-adjustment C1: 0.1 KCl solution (12.9 mS/cm 25 $^{\circ}\text{C}$); C2: 0.01 N KCl solution (1.41 mS/cm 25 $^{\circ}\text{C}$))

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 $^{\circ}\text{C}$

EMC

acc. EN 61326 class B

Enclosure

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

Electrodes / Sensors

Two-electrodes measuring cell with cell constant approx. 1 cm^{-1} (measuring ranges 0...100, 0...20 and 0...2 mS/cm) or 0.1 cm^{-1} (measuring range 2...200 $\mu\text{S/cm}$) and integrated temperature sensor Pt 1000 (special version for Pt 100)

Electrical connections

mountable screw-terminals for wires cross section 0.2...2.5 mm^2 ; 3-pins socket for RS-232 cable connector; optional rail track bus-connector

Sensortechnik Meinsberg GmbH

Quality System certified to DIN EN ISO 9001

Fabrikstraße 69

D-04720 Ziegra-Knobelsdorf /GERMANY

Internet: www.meinsberg.de

Tel. +49 34327 623-0

Fax +49 34327 623-79

