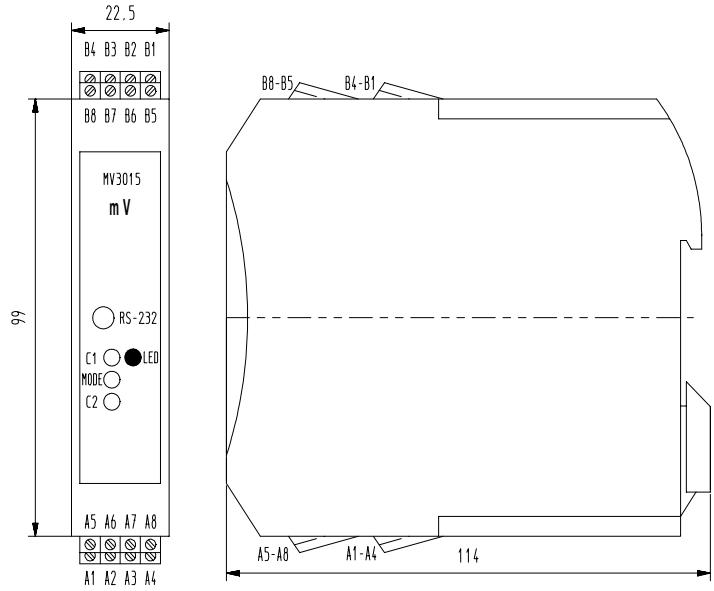
# REDOX (ORP) TRANSMITTER MV 3015

06/04




Dimensions: mm

The Redox (ORP) Transmitter MV 3015 realises reliable processing of redox potential and temperature in connection with a redox (ORP) combination electrode, or a separated measuring and reference electrode and a temperature sensor.
The transmitter features programmable calibration functions, calculation of the measured redox potential in relation to the standard hydrogen electrode, easy installation and programming by means of a RS-232 interface, high functionality and an 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** - 2000 ... 2000 mV; -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 (single-point calibration)
- Calculation of the abs. redox potential in relation to the standard hydrogen electrode

**Buttons functions** MODE: Change into calibration mode
C1, C2: Calibration values (pre-adjustment C1: redox buffer solution $U_{Ag/AgCl}$ = 220 mV (25 °C); C2: redox buffer solution $U_{Ag/AgCl}$ = 468 mV)

**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** redox combination electrode; 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$^2$; 3-pins socket for RS-232 cable connector; optional rail track bus-connector

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