



A small display (OLED) for measuring value and calibration instructions facilitates control and service. The transmitter features programmable calibration functions, automatic temperature compensation, easy installation and programming by means of a PC interface. The transmitter series features reliable processing of:

pH value and temperature

- **MV4010**

Redoxpotential (ORP) and temperature

- **MV4015**

Concentration (ISE) and temperature

- **MV4016**

Conductivity (2 electrodes cells) and temperature

- **MV4020**

Conductivity (4 electrodes cells) and temperature

- **MV4025**

Dissolved oxygen (amperometric) and temperature

- **MV4030**

Chlorine and temperature

- **MV4060**

Display	graphic OLED, 48 x 64 pixel, back-lighted ▪ display for main and second value, temperature
Configuration	with PC configuration software program DinModule: ▪ scaling and determining of the analogue output signals ▪ calibration menu, definition of the calibration points ▪ temperature compensation
Button function	▪ MODE: changing into calibration mode ▪ C1, C2: calibration values
Indication	multi-coloured LED (stable value signalisation) ▪ LED orange: calibration ▪ LED green: measurement ▪ LED red: calibration error
Output signal	2 x 0(4)...20 mA or 0...5(10) V, isolated, resolution 12 Bit; RS232 (protocol on request)
Current output signal	load $\leq 500 \Omega$, accuracy $\leq 0.2 \%$
Voltage output signal	input resistance $\geq 2 \text{ k}\Omega$, accuracy $\leq 0.2 \%$
Relay output	1 limit relay output, closing contact, max. 24 V AC/DC, 1 A
Power supply	15...24 V AC/DC, approx. 1.5 VA
Ambient temperature	0...50 °C
EMC	EN 61326-1:2013, class B
Enclosure	plastic case for mounting on rail tracks DIN EN 50022-35, protection degree IP 40
Dimension	22.5x99x114 mm (WxHxD)
Electrical connection	▪ mountable screw-terminals for wires cross section 0.2...2.5 mm ² ▪ 3-pins socket for RS232 cable connector ▪ Option: rail track bus-connector

▪ **Accessory:**

- DinModule PC software program for configuration and data transmission
- Interface MV Interface cable 1.8 m for RS232 interface connection to MV4000
- Interface MV USB Interface cable 1.8 m for USB interface connection to MV4000

	Measuring range	Electrodes / Sensors
MV4010	<ul style="list-style-type: none"> ▪ pH -2.00...16.00 ▪ -2000...2000 mV ▪ -10.0...130.0 °C (Pt 1000)* 	<ul style="list-style-type: none"> ▪ pH combination electrode ▪ pH combination electrode with integrated temperature sensor ▪ separated measuring electrode ▪ temperature sensor Pt 1000
MV4015	<ul style="list-style-type: none"> ▪ -2000...2000 mV ▪ -10.0...130.0 °C (Pt 1000)* 	<ul style="list-style-type: none"> ▪ redox combination electrode ▪ separated measuring electrode ▪ temperature sensor Pt 1000
MV4016	<ul style="list-style-type: none"> ▪ Ion concentration correlate to sensor specification and calibration ▪ -2000...2000 mV ▪ -10.0...130.0 °C (Pt 1000)* 	<ul style="list-style-type: none"> ▪ ion selective combination electrode (ISE) ▪ separated measuring electrode ▪ temperature sensor Pt 1000
MV4020	<ul style="list-style-type: none"> ▪ 0...200.0 µS/cm, 0...2000 µS/cm ▪ 0...20.00 mS/cm, 0...100.0 mS/cm ▪ -10.0...130.0 °C (Pt 1000)* 	<ul style="list-style-type: none"> ▪ 2 electrodes measuring cell with cell constant approx. 1 cm⁻¹ ▪ temperature sensor Pt 1000
MV4025	<ul style="list-style-type: none"> ▪ 0...200.0 µS/cm, 0...2000 µS/cm ▪ 0...20.00 mS/cm, 0...500.0 mS/cm ▪ -10.0...130.0 °C (Pt 1000)* 	<ul style="list-style-type: none"> ▪ 4 electrodes measuring cell with cell constant approx. 0.3 cm⁻¹ ▪ temperature sensor Pt 1000
MV4030	<ul style="list-style-type: none"> ▪ 0...200.0 % ▪ 0...20.00 mg/l ▪ -10.0...130.0 °C (Pt 1000)* 	<ul style="list-style-type: none"> ▪ membrane covered amperometric oxygen sensor ▪ temperature sensor Pt 1000
MV4060	<ul style="list-style-type: none"> ▪ Input 0(4)...20 mA ▪ free programmable slope / concentration (i. e. 0...2.00 mg/l) ▪ -10.0...130.0 °C (Pt 1000)* 	<ul style="list-style-type: none"> ▪ sensor with 2 wire output especially amperometric sensors for measurement of disinfectants (chlorine, chlorine dioxide, ozone) ▪ temperature sensor Pt 1000

* NTC or Pt 100 on request

- Type:
 - MV40xx current output
 - MV40xx-U voltage output