

Microprocessor transmitter/ switching device for pH/Redox voltage and temperature

– With a 2-line LCD for mounting on a 35 mm DIN rail

Depending on the configuration, the instrument measures and regulates the pH-value or the Redox voltage in aqueous solutions. Typical applications are in general water and waste-water management, measurement of drinking water, process water, surface water and sea water, swimming pool and well water, aquariums, etc.

Operation – pH measurement

It is possible to connect both, pH combination electrodes as well as glass electrodes with a separate reference electrode. There are two possible connection types:

- asymmetric high-resistance (the common variant)
- symmetric high-resistance

The symmetric connection can facilitate a more stable measurement in electrically



disturbed media (e.g. from insulation problems of electrical operating equipment, pumps etc.).

The temperature compensation of the pH-value is achieved through the automatic measurement of the temperature over the second input or by manually inputting the value.

Transmitter

Operation - Redox measurement

It is possible to connect both – Redox combination electrodes as well as metal electrodes with a separate reference electrode. The display can be either in mV or freely scaled.

Calibration - pH-value measurement

- Single-point calibration
- Two-point calibration

Calibration - Redox measurement

- Single-point calibration with mV display
- Two-point calibration with display in % (free-scale)

Calibration timer

The calibration timer indicates when a user-defined routine calibration interval has been reached. The number of days after the timer alarm is triggered is adjustable (plant specification or specification of owner-operator).

Features

- 2 galvanically isolated analog outputs 0(4)...20mA / 0(2)...10V freely configurable as actual value output for pH, Redox or temperature
- Can be changed over from pH to mV / ORP (Redox voltage)



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