

Conductivity Transmitter Type 2817

- ✓ Direct probe mounting
- ✓ 0/4...20mA Current output or 0...10V, galvanically isolated
- ✓ 24VDC power supply
- ✓ Food grade/ sterilizable probes
- ✓ Optional: temperature compensation up to 80°C
- ✓ 3-way isolation

IP67



Technical description

The M2817 conductivity transmitter is packed in a polypropylene case.

The conductivity transmitter is suitable for water, waste water or ultrapure water conditioning in continuous or batch-type operating modes, for liquid chromatography or for general chemical process monitoring.

An optional temperature compensation up to 80°C is available. This can be made with a factory programmed value or with a temperature sensor assembled in the cell.

The measure signal is available as a galvanic isolated output of 0...20mA, 4...20mA or 0...10V DC.

The M2817 can be supplied by either 24VAC or DC. The power supply is galvanically isolated to the electrodes and output signal.

Supply lines and all other lines, either from or to the conductivity transmitter, are protected by internal noise limiters against HF-noise.

A cable of either 2m or 5m is used to connect the M2817

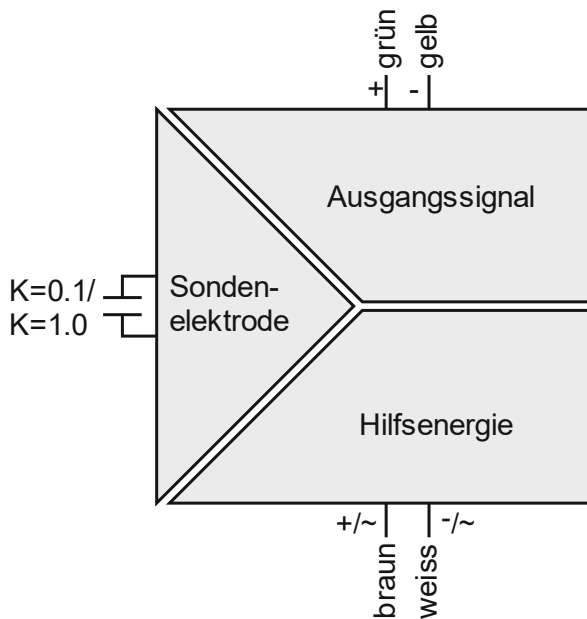
Technical data

Measuring ranges:	0...20 μ S/cm (K = 0.1) 0...700 μ S/cm (K = 1.0)
Working temperature range:	-5 to +55°C
Accuracy:	\pm 3%
Reproducibility:	< 1%
Measuring frequency:	between 80Hz and 7kHz
Measuring amplitude:	70/150mV
Step response:	Time between a conductivity change from 0% to 100% or reverse measured between 10% and 90% = 4 seconds
Input protection:	virtual zero, protected by diodes
Temperature compensation:	Standard: without temperature compensation Optional: manual from 0 to 80°C, only adjustable at the factory automatic 0 to 80°C with an internal temperature sensor
Conductivity water:	Optional : The self-conductivity of ultrapure water is measured and temperature compensated
Reference temperature:	25°C
Limit contacts:	Optional, on request
Current output:	0/4...20mA or 0...10V
Max. load:	500 Ω
Output impedance:	Typ. >1M Ω
Isolation voltage:	80VDC
Temperature range medium:	0...80°C
Power supply:	18...30VAC or DC
Galvanic isolation:	3-way isolation between power supply, probe electronics and current output
Power supply load:	1.5 to 2.5W at 24VDC
CE-conformity:	Full filled
Connection cable:	Shielded PVC cable, open cable ends Length: 2m, 5m other sizes on request
Case:	Polypropylene nature colored, protection class DIN 40050 IP67
Cell winding:	3/4" Gas (cylindrical), with O-ring
Electrode material:	Stainless steel 1.4301
Max. pressure:	2.5bar
Weight:	240g
Warranty:	2 years
Ordering example:	M2817 K=1.0, 0... 700 μ S/cm = 4...20mA, 25°C, 2.25%/°C
Options:	- Customer specified functions

Terminals

Wire assignment:	1 = Conductivity current output (GND)	Wire color PVC-cable = yellow
	2 = Conductivity current output (+)	Wire color PVC-cable = green
	4 = Supply: AC~/DC(-)	Wire color PVC-cable = white
	5 = Supply: AC~/DC(+)	Wire color PVC-cable = brown

Wiring



Dimensions / Cut out dimensions K=0.1(mm)

