

Mostec AG
Mess- und Regeltechnik
Lausenerstrasse 13a
CH-4410 Liestal, Switzerland

Tel. + 41 61 921 40 90
Fax + 41 61 921 40 83
Internet www.mostec.ch
E-Mail info@mostec.ch



Measuring Amplifier for pH and Redox Type M2920

Application example:



0 to 14pH

-1000 to 1000mV

4...20mA, 2-Wire Technics

24VDC Power Supply

Galvanically Isolated

IP67



comparison to
1 Euro coin

Example M2920
20x72mm (incl. screw joint)

Technical description

The very small measuring amplifier for pH and Redox type M2920 converts the electrode signal directly to a 4...20mA 2-wire signal.

The M2920 works with a resolution of 12 bit, is pre-calibrated and connected between the electrode and signal acquisition instrument (e.g. PLC).

Programmable logic controllers (PLC) or other controllers can be connected directly.

The Input is galvanically isolated from the output and power supply.

The robust housing confirms the protected class IP67 and allows application in rough environments.

Optionally a 3-wire temperature compensation up to 120°C is available. Electrodes with build-in temperature sensor can connected directly.

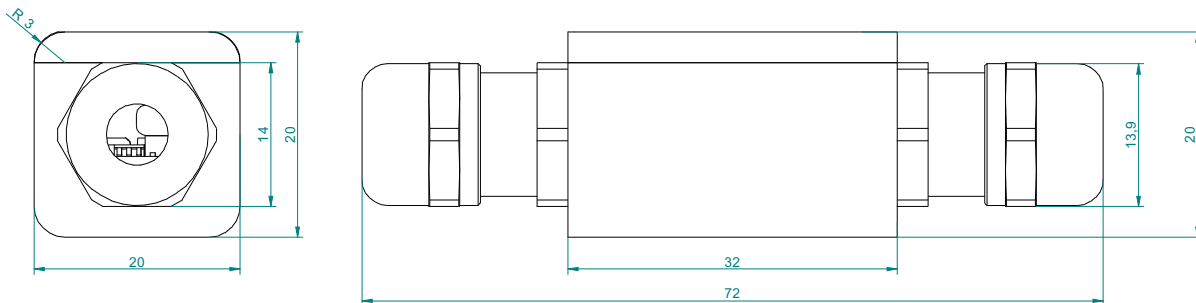
Technical Data:

Material:	anodised aluminum, IP67, others on request
Signal input:	-1000...1000mV, others on request
Input impedance:	>10
Signal output:	4...20mA, others on request
Output impedance:	>1M
Max. load, 24V:	< 500
Zero point:	< 0.1% @ 25°C
Zero stability:	< 0.01% per °C
Accuracy:	< 0.1% @ 25°C
Stability:	< 0.003% per °C
Creep after 30':	< 0.5%
Reproducibility:	< 0.1%
Linearity:	< 0.05%
Rise time:	< 50ms for 99% load change
Measuring rate:	16ms, factory programmable [16 bis 1000ms]
Resolution:	12bit
Hysteresis:	< 0.3%
Power supply range:	22 to 30VDC
Insulation resistance:	> 5000M @ 50VDC
Test isolation voltage:	2500VAC/1', input output power supply
CE Conformity:	in accordance with RL 2004/108/EG
EMC Conformity:	in accordance with EN61000-6-2, EN61000-6-4 and EN61326-1
Operating temperature:	-10 to 40°C
Max. working temperature:	-25 to 65°C
Storage temperature:	-40 to 85°C
Weight:	50g
Warranty:	2 years

Connection 2-wire signal:	cable ends: red = +24VDC, black = 4...20mA and shield
Connection electrode:	cable, triaxial with custom made connector, others on request
Cable length 2-wire signal:	< 300m, 3m factory-made delivered
Cable length electrode:	10cm, customer-made connected

Options:	- 3-wire temperature compensation up to 120°C - connection for Mettler Toledo digital sensors - customer specified functions
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Dimensions:



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