

Miniature Measuring Amplifier Type M2920-1-W for ISM pH Sensors InPro from Mettler Toledo

Application example:



InPro 3250i
InPro 3253i
InPro 4260i
InPro 4800i

ISM Sensors InPro

4...20mA, 2-Wire Technics

24VDC Power Supply

Galvanically Isolated

IP67



M2920-1-W
20x72mm (incl. screw joint)

Comparison to
1 Euro coin



Technical description

The very small measuring pH amplifier type M2920-1-W converts the digital electrode signal from Mettler Toledo ISM pH sensors InPro 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.

Technical Data:

Material:	anodised aluminum, IP67, others on request
Signal input:	ISM sensors from Mettler Toledo type InPro 3250i, InPro 3253i, InPro 4260i, InPro 4800i
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:	500VAC/1', input output & power supply
Operating temperature:	-10 to 40°C
Max. working temperature:	-25 to 65°C
Storage temperature:	-40 to 85°C
Weight:	50g
CE Conformity:	in accordance with RL 2004/108/EG
EMC Conformity:	in accordance with EN61000-6-2, EN61000-6-4 and EN61326-1
Warranty:	2 years

Connection 2-wire signal:	cable ends: red = +24VDC, black = 4...20mA and shield
Connection electrode:	connecting plug for ISM sensors
Cable length 2-wire signal:	< 300m, 3m factory-made delivered
Cable length electrode:	10cm, customer-made connected

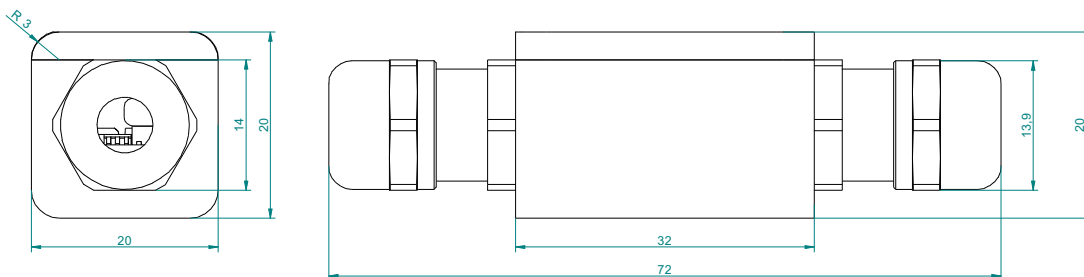
Options:	- connection for other Mettler Toledo digital sensors - customer specified functions
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Ordering Example: 1x M2920-1W 0...14pH = 4...20mA

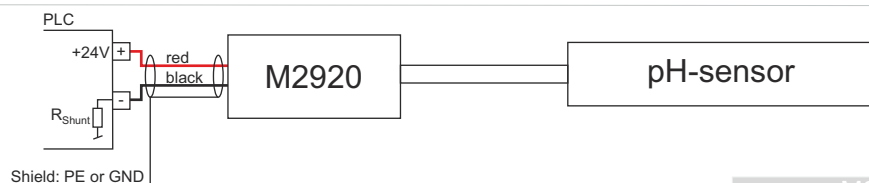
pH-Sensors:



Dimensions:



Connection:



M2920-1-W / V1.01

MOSTEC