

Pt100 Two-wire Input Transmitter MPU-4(B)

Application / Specified Usage

The two-wire input transmitter MPU-4 (B) converts the temperature signal of the resistance thermometer into a scaled signal (4...20 mA) proportional to the temperature, whereby the two-wire loop is conducting both the power supply (voltage) and the output signal (current).

The module directly can be mounted into the connecting head of the temperature sensor (e.g. TFP-40).

By mounting the transmitter directly at the point of measurement no additional converter in a cabinet system is necessary, this resulting in the advantages of low installation costs, uncomplicated wiring and high noise immunity.

The transmitter MPU-4(B)G mounted in a stable Polyamide case - especially suits for temperature sensors with wiring but without connecting head.

Features

- Installation into the sensor head (e.g. TFP-40)
- Fully potted module
- Connection directly to the PLC
- Temperature linear 4...20 mA signal

Options / Accessories

- Special measurement ranges
- 2-, 3- or 4-wire connection
- Programming adapter MPU-P 9701
- Transmitter in Polyamide housing, option MPU-4(B)G

Authorizations



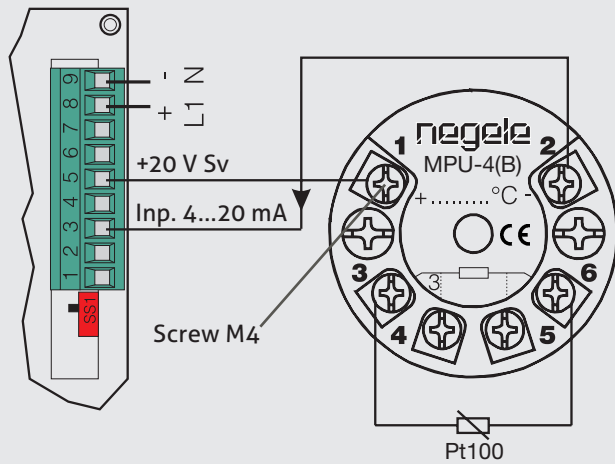
Transmitter MPU-4(B)



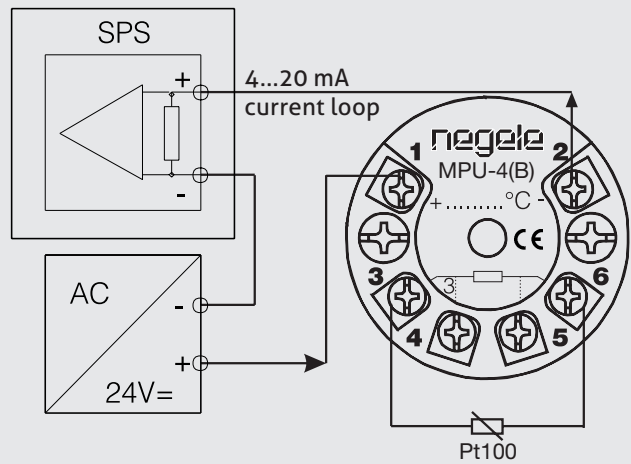
Specification transmitter MPU-4(B)

Temperature ranges	ambient	-40...+85 °C
	storage	-55...+90 °C
Measuring ranges		standard: -10...40 °C, 0...50 / 100 / 150 / 200 °C special ranges free programmable
Accuracy	input	< ±0,25 °C
Temperature drift	zero, span	< 0,01 % / K
Supply		8...35 V DC
	accuracy	0,01 % / V (reference: 12 V DC)
Output	signal	analog 4...20 mA
	accuracy	< ±0,1 % of measurement range
	burden	< 600 Ω (at U _B = 24 V)
Humidity	without condensation	0...98 %

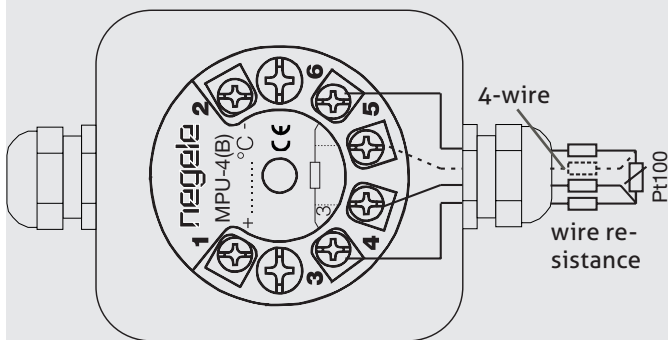
Electrical connection to digital indicator DPM-GS



Electrical connection to PLC



Option MPU-4(B)G
3- / 4-wire connection



Advice to EMC



- The device agrees to following standards: EMC directive 2004/118/EC.

Transport / Storage



- Use suitable transport packaging only to avoid damage of the equipment!
- No outdoor storage
- Store dry and dust free
- Not exposed to corrosive media
- Protected against solar radiation
- Avoiding mechanical shock and vibration
- Storage temperature -10...+70 °C
- Relative humidity maximum 95 %

Disposal



- This instrument is not subject to the WEEE directive 2002/96/EC and the respective national laws.
- Pass the instrument directly on to a specialised recycling company and do not use the municipal collecting points.