

## Pt100 Two-wire Input Transducer mpu-4

### General Description

The two-wire input transducer mpu-4 converts the temperature signal of the resistance thermometer into a scaled signal (4...20mA) 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...52).

By mounting the transducer 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 transducer mpu-4 mounted in a stable Polyamide case - especially suits for temperature sensors with wiring but without connecting head.



two-wire input transducer  
mpu-4

### Features

- installation into the sensor head (e.g. TFP-40...52)
- connection directly to the PLC
- temperature linear 4-20mA signal
- fully potted module

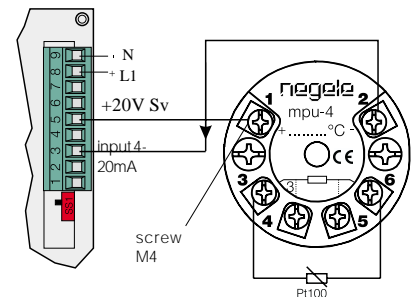
### Options

- other temperature measurement ranges
- available with Ex certificat mpu-4ex

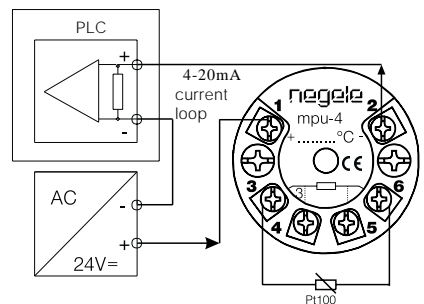
### Specification

Housing	plastics	PA6GV30, Ø44x19mm
	fitting	2 threads M4, spaced 33,0mm
Connector		4-pin screw terminal, inclined 1,5mm <sup>2</sup>
Ambient	operat. temperature	-40...+85°C
	storage temperature	-40...+120°C
	humidity	0...98% without dew
Input	Pt100-sensor	two-wire connection
Meas. Range	standard	-10 ... +40°C; 0 ... 50/100/150/200°C
	minimum range	25 K
	measurement unit	[°C] or [°F]
Accuracy		<±0,1% of full scale
	temperature drift	0,003%/K typ., 0,01%/K max.
Output	current loop	4-20mA
	overflow	23mA / 3,5mA
	sensor faults	short circuit <-225°C, open circuit >875°C
Power supply		8...35V DC, ripple ≤±5%

### Connection to digital display dpm-gs



### Connection to PLC



### 3- / 4-wire connection

