

MU-PT100/PT1000

overview

- ◆ temperature to analogue signal transducer
- ◆ high linearity, long term stability, high accuracy
- ◆ 4 selectable temperature ranges
- ◆ current and voltage outputs
- ◆ 2, 3 or 4 wire PT sensor connections
- ◆ 22.5 or 45mm DIN rail mount housing



Description

The offset of the output signal is selected with the first DIP switch, the measurement range is selected with the other two DIP switches.

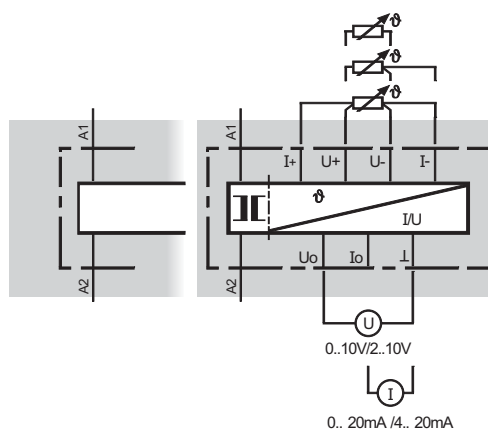
The different probe connection types are detected automatically.

The use of shielded and twisted-pair cable is recommended. Connect the shield of the cable (if used) to the connector "I-". "U+"/"U-" and "I+"/"I-" are twisted together (if twisted cable used).

Do not lay the PT probe cable close to supply voltage cables.

specification

supply voltage variation	nominal voltage +10% / -10%
input	PT100/PT1000
connection	2, 3 or 4 wire
temperature ranges	-30°C to 100°C 0°C to 100°C 0°C to 200°C 0°C to 300°C
current output	
accuracy	<0,1%
max. output load	550 Ohm
temperature coefficient	<0,01%/K
voltage output	
accuracy	<0,3%
max. output current	<5mA
temperature coefficient	<0,01%/K
screws	pozidrive 1
screw tightening torque	0,6...0,8Nm
operating conditions	-20 to +60 °C non condensing



ordering information

part no	supply	sup. galv. iso.*	UL 95	housing type
MU-PT100/24Vdc	24V= 1,5W	no	-	B
MU-PT100/24Vac	24V~ 2,5VA	yes	-	B
MU-PT100/115Vac	115V~ 2,5VA	yes	-	C
MU-PT100/230Vac	230V~ 2,5VA	yes	-	C
MU-PT1000/24Vdc	24V= 1,5VA	no	-	B
MU-PT1000/24Vac	24V~ 2,5VA	yes	-	B
MU-PT1000/115Vac	115V~ 2,5VA	yes	-	C
MU-PT1000/230Vac	230V~ 2,5VA	yes	-	C

* PT100/PT1000 and the output signals are galvanically isolated from the power supply



temperature transducer PT100/PT1000