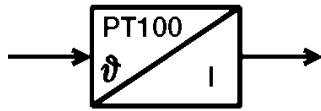# RTD Thermocouple Conditioners
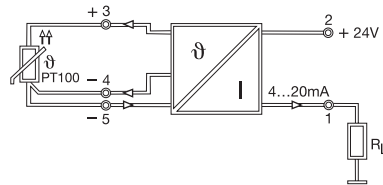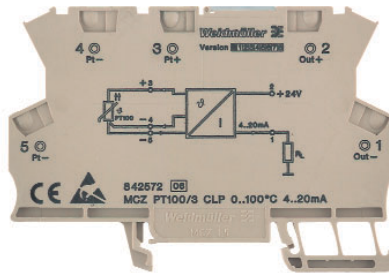
• for 2 and 3 wire sensors

The temperature module converts measurement values from a PT 100 into analog measurement signals. The module supplies the sensor with power. The module is distinguished by its accuracy and linearity.

MCZ PT100/3 CLP

0…+100°C/0…+120°C/0…+150°C/0…+200°C/0…+300°C/
-50…+150°C/-40…+100°C

Block diagram

Ordering data	Type		Part No.
for TS 35	MCZ PT100/3 CLP	0°C…+100°C	**8425720000**
	MCZ PT100/3 CLP	0°C…+120°C	**8483680000**
	MCZ PT100/3 CLP	0°C…+150°C	**8604420000**
	MCZ PT100/3 CLP	0°C…+200°C	**8473010000**
	MCZ PT100/3 CLP	0°C…+300°C	**8473020000**
	MCZ PT100/3 CLP	-50°C…+150°C	**8473000000**
	MCZ PT100/3 CLP	-40°C…+100°C	**8604430000**

Technical data	
Input	**PT 100 (according to IEC 751)**
Connection	3-wire/2-wire*
Max. wire resistance	each 50 Ω
Leadwire resistance effect	max. 0.006°C/Ω
Supply current	0.8 mA
Output	**4…20 mA****
Load	750 Ω at 24 V
Supply voltage	max: 30 V / min: 9 V + 20 mA x R_L
Residual ripple of supply voltage	max: 1.5 V at 100 Hz
Set time	10 ms
Accuracy	Type. 0.2% max. 0.5% v. FSR
Linearity	<0.1% v. FSR
Temperature coefficient	max. ±250 ppm/°C
Open circuit recognition	yes
EMC	EMVG
	EN 50081-1
	EN 50082-2
Approvals	CE, UL, CSA
Ambient temperature	0°C…+50°C
Storage temperature	-20°C…+85°C
Conductor	AWG 22…12
Conductor cross-section	1.5 mm^2 (16 AWG)
Overall width	6 (.24)
Dimensions and accessories see	Page 363

* Putting a bridge between Pins 4 and 5   ** current loop supplied