

RTD Thermocouple Conditioners

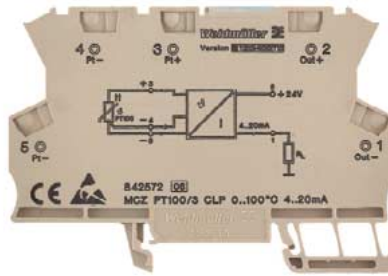
- for 2 and 3 wire sensors



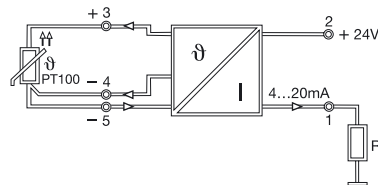
The temperature module converts measurement values from a PT 100 into analogue measurement signals. The module supplies the sensor with power. The module is distinguished by its accuracy and linearity.

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

for TS 35

Type		Cat. No.
MCZ PT100/3 CLP	0...100 °C	8425720000
MCZ PT100/3 CLP	0...120 °C	8483680000
MCZ PT100/3 CLP	0...150 °C	8604420000
MCZ PT100/3 CLP	0...200 °C	8473010000
MCZ PT100/3 CLP	0...300 °C	8473020000
MCZ PT100/3 CLP	-50...+150 °C	8473000000
MCZ PT100/3 CLP	-40...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: 30V / min: 9V+20mA x RL
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
Overall width	6 mm
* Putting a bridge between Pins 4 and 5	** current loop supplied
Dimensions and accessories see	Page 305