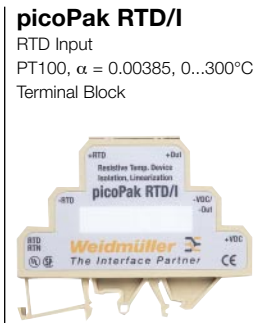
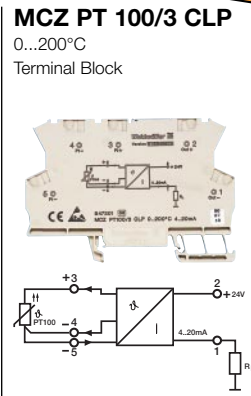


Analog Signal Conditioners

NEW

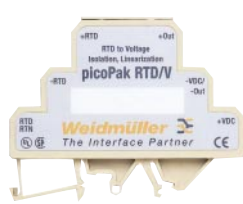


Ordering Data	Type	Part No.	Type	Part No.	Type	Part No.
Screw clamp for TS 35 rail						
Screw clamp for TS 32 rail						
Screw clamp for combi-foot, TS 35 or TS 32 rail	picoPak RTD/V	998331			picoPak RTD/I	998323
Tension clamp for TS 35 rail			MCZ PT 100/3 CLP	847301		
Technical Data	Input signal type	RTD	Input signal type	PT100 (according to IEC 751)	Input signal type	RTD
Material or excitation	PT100Ω				PT100Ω	
Input range (min...max.)	Pt-100, $\alpha = 0.00385, 0...200^{\circ}\text{C}^*$		0°C...200°C, 3-wire system		Pt-100, $\alpha = 0.00385, 0...300^{\circ}\text{C}^*$	
Input impedance						
Line resistance			max. 0.006°C/Ω			
Input maximum						
Supply voltage (min./max.)	15...30 VDC				15...30 VDC	
Supply current (min./max.)	25...30 mA		0.8 mA		25...45 mA	
Current/power consumption						
Power requirements	External		Loop Powered		External	
Continuous current rating						
Response or switching freq. max.						
Supply current to PT 100 sensor						
Zero setting (4.0 mA) adjustment						
Span adjustment (20 mA)						
Output signal type	Voltage		Current		Current	
Output range	0-10 V*		4...20 mA		4-20 mA*	
Output load/loop resistance	2kΩ min., 4kΩ min.		750 Ω at 24 V		600Ω max.	
Output supply voltage (min./max.)			max. 30 V / min. 9 V+20 A \times R _L			
Output supply current (max.)						
Cold junction comp error	150 μA / 0.1°C				150 μA / 0.1°C	
Common mode rejection						
Accuracy input/output	0.05% of full scale nominal, 0.2% max. for voltage output		typ. 0.2% max. 0.5% from FSR		0.05% of full scale nominal, 0.2% max. for voltage output	
Linearity input/output			< 0.1% from FSR			
Temperature coefficient			max. ± 150 ppm/°C			
Transmission frequency	10 Hz				10 Hz	
Coupling method	Optically Isolated		Direct		Optically Isolated	
Cross-connections on pin						
Operating Specifications						
Dielectric isolation input to output	1500 VAC RMS, 2 port		4 kV		1500 VAC RMS, 2 port	
Dielectric isolation I/O to power supply						
Dielectric isolation I/O to DIN-rail			4 kV _{eff} / 1 min			
Storage temperature range	-40° C...+85° C		-20°C...+85°C		-40° C...+85° C	
Operating temperature range	-40° C...+75° C		0°C...+50°C		-40° C...+75° C	
Relative humidity (non-condensing)						
Wire size	#26...12 AWG / 0.5...2.5 mm ²		#22...12 AWG		#26...12 AWG / 0.5...2.5 mm ²	
Clamp screw tightening torque Nm (lb.in.)	.6 (5.31)		Tension Clamp		.6 (5.31)	
Mechanical dimensions (WxLxH) mm (in.)	12x88x68 (.47x3.46x2.68)		6x91x63.2 (.24x3.58x2.49)		12x88x68 (.47x3.46x2.68)	
Dimensional diagram	Page 404 Fig. 4				Page 404 Fig. 4	
Insulation stripping length mm (in.)						
Certification standards	UL, CSA, CE		UL, CSA, CE		UL, CSA, CE	
Accessories	Type	Part No.	Type	Part No.	Type	Part No.
End plate side cover	-	-	AP MCZ 1.5	838903	-	-
PC software kit†	-	998471			-	998471
Cross-connection, black						
Cross-connection, red						
Cross-connection, blue						
Cross-connection, yellow						

NEW

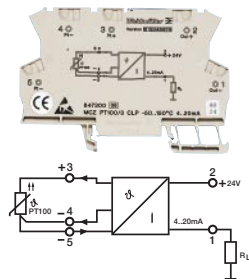
picoPak RTD/V

RTD Input
PT100, $\alpha = 0.00385, 0...300^{\circ}\text{C}$
Terminal Block



MCZ PT 100/3 CLP

0...300°C
Terminal Block



picoPak RTD/I

RTD Input
PT100, $\alpha = 0.00385, 0...850^{\circ}\text{C}$
Terminal Block



picoPak RTD/V

RTD Input
PT100, $\alpha = 0.00385, 0...850^{\circ}\text{C}$
Terminal Block



Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
picoPak RTD/V	998332	MCZ PT 100/3 CLP	847302	picoPak RTD/I	998327	picoPak RTD/V	998336
PT 100 RTD 2- or 3-wire		PT100 (according to IEC 751)		PT 100 RTD 2- or 3-wire		PT 100 RTD 2- or 3-wire	
Pt100 Ω				Pt100 Ω		Pt100 Ω	
PT100, $\alpha = 0.00385, 0...300^{\circ}\text{C}^*$		0°C...300°C, 3-wire system		PT100, $\alpha = 0.00385, 0...850^{\circ}\text{C}^*$		PT100, $\alpha = 0.00385, 0...850^{\circ}\text{C}^*$	
		max. 0.006°C/Ω					
15...30 VDC				15...30 VDC		15...30 VDC	
25...30 mA		0.8 mA		25...45 mA		25...30 mA	
External		Loop Powered		External		External	
Voltage		Current		Current		Voltage	
0...10 V*		4...20 mA		4...20 mA*		0...10 V*	
2 kΩ min., 4 kΩ min.		750 Ω at 24 V max. 30 V / min. 9 V+20 A \times R _L		600 Ω max.		2 kΩ min., 4 kΩ min.	
150 μA / 0.1°C				150 μA / 0.1°C		150 μA / 0.1°C	
0.05% of full scale nominal, 0.2% max. for voltage output		typ. 0.2% max. 0.5% from FSR < 0.1% from FSR max. ± 150 ppm/°C		0.05% of full scale nominal, 0.2% max. for voltage output		0.05% of full scale nominal, 0.2% max. for voltage output	
10 Hz				10 Hz		10 Hz	
Optically Isolated		Direct		Optically Isolated		Optically Isolated	
1500 VAC RMS, 2 port		4 kV		1500 VAC RMS, 2 port		1500 VAC RMS, 2 port	
-40°C...+85°C		4 kV _{eff} / 1 min		-40°C...+85°C		-40°C...+85°C	
-40°C...+75°C		-20°C...+85°C		-40°C...+75°C		-40°C...+75°C	
		0°C...+50°C					
#26...12 AWG / 0.5...2.5 mm ² 0.6 (5.31)		#22...12 AWG Tension Clamp		#26...12 AWG / 0.5...2.5 mm ² 0.6 (5.31)		#26...12 AWG / 0.5...2.5 mm ² 0.6 (5.31)	
12x88x68 (.47x3.46x2.68)		6x91x63.2 (.24x3.58x2.49)		12x88x68 (.47x3.46x2.68)		12x88x68 (.47x3.46x2.68)	
Page 404 Fig. 4				Page 404 Fig. 4		Page 404 Fig. 4	
UL, CSA, CE		UL, CSA, CE		UL, CSA, CE		UL, CSA, CE	
Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
-	-	AP MCZ 1.5	838903	-	-	-	-
-	998471			-	998471	-	998471

*Consult factory for custom configurations.