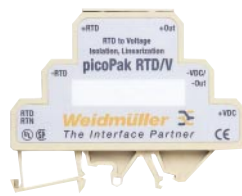


# Analog Signal Conditioners

**NEW**

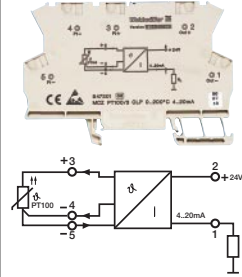
## picoPak RTD/V

RTD Input  
PT100,  $\alpha = 0.00385$ , 0...200°C  
Terminal Block



## MCZ PT 100/3 CLP

0...200°C  
Terminal Block



## picoPak RTD/I

RTD Input  
PT100,  $\alpha = 0.00385$ , 0...300°C  
Terminal Block



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	<b>998331</b>			picoPak RTD/I	<b>998323</b>
Tension clamp for TS 35 rail			MCZ PT 100/3 CLP	<b>847301</b>		
Technical Data	Input signal type	<b>RTD</b>	Input signal type	<b>PT100 (according to IEC 751)</b>	Input signal type	<b>RTD</b>
Material or excitation	Pt100Ω					Pt100Ω
<b>Input range (min...max.)</b>	<b>Pt-100, <math>\alpha = 0.00385</math>, 0...200°C*</b>		<b>0°C...200°C, 3-wire system</b>			<b>Pt-100, <math>\alpha = 0.00385</math>, 0...300°C*</b>
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						
<b>Power requirements</b>	<b>External</b>		<b>Loop Powered</b>			<b>External</b>
Continuous current rating						
Response or switching freq. max.						
Supply current to PT 100 sensor						
Zero setting (4.0 mA) adjustment						
Span adjustment (20 mA)						
<b>Output signal type</b>	<b>Voltage</b>		<b>Current</b>			<b>Current</b>
<b>Output range</b>	<b>0-10 V*</b>		<b>4...20 mA</b>			<b>4-20 mA*</b>
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 <sub>xR<sub>L</sub></sub>			
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
<b>Coupling method</b>	<b>Optically Isolated</b>		<b>Direct</b>			<b>Optically Isolated</b>
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 <sub>eff</sub> / 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 <sup>2</sup>		#22...12 AWG			#26...12 AWG / 0.5...2.5 mm <sup>2</sup>
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	<b>838903</b>	-	-
PC software kit†	-	<b>998471</b>			-	<b>998471</b>
Cross-connection, black						
Cross-connection, red						
Cross-connection, blue						
Cross-connection, yellow						