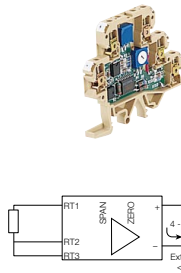
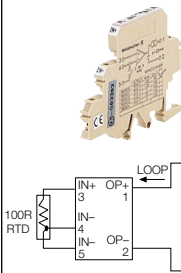


Analog Signal Conditioners

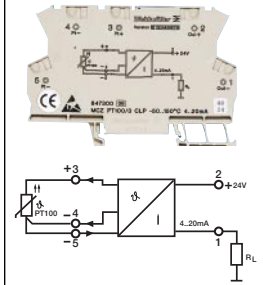
DK5 / RTD-I
RTD 2- or 3-wire
0°C...+300°C
Terminal Block



DK5 / RTD-I
RTD 2- or 3-wire
+20°C...+125°C
Terminal Block



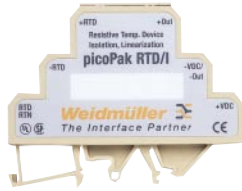
MCZ PT 100/3 CLP
50°C...+150°C
Terminal Block



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	DK5 / RTD-I	990841	DK5 / RTD-I	980633		
Tension clamp for TS 35 rail					MCZ PT 100/3 CLP	847300
Technical Data						
Input signal type	PT100 RTD 2- or 3-wire		PT100 RTD 2- or 3-wire		PT100 (according to IEC 751)	
Material or excitation						
Input range (min...max.)	0°C...+300°C		+20°C...125°C		50°C...150°C, 3-wire system	
Input impedance						
Line resistance						max. 0.006°C/Ω
Input maximum	25 mA DC		25 mA DC			
Supply voltage (min./max.)						
Supply current (min./max.)						0.8 mA
Current/power consumption						
Power requirements	External		External		Loop Powered	
Continuous current rating						
Response or switching freq. max.						
Supply current to PT 100 sensor	<3 mA		<3 mA			
Zero setting (4.0 mA) adjustment	±5%		±5%			
Span adjustment (20 mA)	±5%		±5%			
Output signal type	Current		Current		Current	
Output range	4...20 mA		4...20 mA		4...20 mA	
Output load/loop resistance	≤500 Ω		≤500 Ω		750 Ω at 24 V	
Output supply voltage (min./max.)	18...32 VDC		18...32 VDC		max. 30 V / min. 9 V+20 A x R _L	
Output supply current (max.)	25 mA		25 mA			
Cold junction comp error						
Common mode rejection						
Accuracy input/output	±0.5% at 25°C		±0.5% at 25°C		typ. 0.2% max. 0.5% from FSR	
Linearity input/output					< 0.1% from FSR	
Temperature coefficient					max. ± 150 ppm/°C	
Transmission frequency						
Coupling method	Direct		Direct		Direct	
Cross-connections on pin						
Operating Specifications						
Dielectric isolation input to output					4 kV	
Dielectric isolation I/O to power supply						
Dielectric isolation I/O to DIN-rail					4 kV _{eff} / 1 min	
Storage temperature range	-20°C...+70°C		-20°C...+70°C		-20°C...+85°C	
Operating temperature range	0°C...+55°C		0°C...+55°C		0°C...+50°C	
Relative humidity (non-condensing)	0 to 80%		0 to 80%			
Wire size	#20...12 AWG / 0.5...2.5 mm ²		#20...12 AWG / 0.5...2.5 mm ²		#22...12 AWG	
Clamp screw tightening torque Nm (lb.in.)	0.5 (4.38)		0.5 (4.38)		Tension Clamp	
Mechanical dimensions (WxLxH) mm (in.)	6x77x62 (.24x3.03x2.44)		6x77x62 (.24x3.03x2.44)		6x91x63.2 (.24x3.58x2.49)	
Dimensional diagram	Page 404 Fig. 3		Page 404 Fig. 3			
Insulation stripping length mm (in.)	9 (.35)		9 (.35)			
Certification standards	CE, CSA		CE		UL, CSA, CE	
Accessories	Type	Part No.	Type	Part No.	Type	Part No.
End plate side cover	AP (1.5)	C9039986	AP (1.5)	C9039986	AP MCZ 1.5	838903
PC software kit†						
Cross-connection, black						
Cross-connection, red						
Cross-connection, blue						
Cross-connection, yellow						

†Kit includes PC based Windows® software, cable and configuration manual.

picoPak RTD/I
RTD Input
PT100, $\alpha = 0.00385, 0...100^{\circ}\text{C}$
Terminal Block



picoPak RTD/V
RTD Input
PT100, $\alpha = 0.00385, 0...100^{\circ}\text{C}$
Terminal Block



picoPak RTD/I
RTD Input
PT100, $\alpha = 0.00392, 0...100^{\circ}\text{C}$
Terminal Block



picoPak RTD/V
RTD Input
PT100, $\alpha = 0.00392, 0...100^{\circ}\text{C}$
Terminal Block



picoPak RTD/I
RTD Input
PT100, $\alpha = 0.00385, 0...200^{\circ}\text{C}$
Terminal Block



Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
picoPak RTD/I	998321	picoPak RTD/V	998330	picoPak RTD/I	998326	picoPak RTD/V	998335	picoPak RTD/I	998322
PT 100 RTD 2- or 3-wire		PT 100 RTD 2- or 3-wire		PT 100 RTD 2- or 3-wire		PT 100 RTD 2- or 3-wire		PT 100 RTD 2- or 3-wire	
Pt100 Ω		Pt100 Ω		Pt100 Ω		Pt100 Ω		Pt100 Ω	
PT100, $\alpha = 0.00385, 0...100^{\circ}\text{C}^*$		PT100, $\alpha = 0.00385, 0...100^{\circ}\text{C}^*$		PT100, $\alpha = 0.00392, 0...100^{\circ}\text{C}^*$		PT100, $\alpha = 0.00392, 0...100^{\circ}\text{C}^*$		PT100, $\alpha = 0.00385, 0...200^{\circ}\text{C}^*$	
15...30 VDC		15...30 VDC		15...30 VDC		15...30 VDC		15...30 VDC	
25...45 mA		25...30 mA		25...45 mA		25...30 mA		25...45 mA	
External		External		External		External		External	
Current		Voltage		Current		Voltage		Current	
4...20 mA*		0...10 V*		4...20 mA*		0...10 V*		4...20 mA*	
600 Ω max.		2 k Ω min., 4 k Ω min.		600 Ω max.		2 k Ω min., 4 k Ω min.		600 Ω max.	
150 $\mu\text{A} / 0.1^{\circ}\text{C}$		150 $\mu\text{A} / 0.1^{\circ}\text{C}$		150 $\mu\text{A} / 0.1^{\circ}\text{C}$		150 $\mu\text{A} / 0.1^{\circ}\text{C}$		150 $\mu\text{A} / 0.1^{\circ}\text{C}$	
0.05% of full scale nominal, 0.2% max. for voltage output		0.05% of full scale nominal, 0.2% max. for voltage output		0.05% of full scale nominal, 0.2% max. for voltage output		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		10 Hz		10 Hz	
Optically Isolated		Optically Isolated		Optically Isolated		Optically Isolated		Optically Isolated	
1500 VAC RMS, 2 port		1500 VAC RMS, 2 port		1500 VAC RMS, 2 port		1500 VAC RMS, 2 port		1500 VAC RMS, 2 port	
-40 $^{\circ}\text{C}...+85^{\circ}\text{C}$		-40 $^{\circ}\text{C}...+85^{\circ}\text{C}$		-40 $^{\circ}\text{C}...+85^{\circ}\text{C}$		-40 $^{\circ}\text{C}...+85^{\circ}\text{C}$		-40 $^{\circ}\text{C}...+85^{\circ}\text{C}$	
-40 $^{\circ}\text{C}...+75^{\circ}\text{C}$		-40 $^{\circ}\text{C}...+75^{\circ}\text{C}$		-40 $^{\circ}\text{C}...+75^{\circ}\text{C}$		-40 $^{\circ}\text{C}...+75^{\circ}\text{C}$		-40 $^{\circ}\text{C}...+75^{\circ}\text{C}$	
#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)		#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)		#26...12 AWG / 0.5...2.5 mm ² 0.6 (5.31)	
12x88x68 (.47x3.46x2.68)		12x88x68 (.47x3.46x2.68)		12x88x68 (.47x3.46x2.68)		12x88x68 (.47x3.46x2.68)		12x88x68 (.47x3.46x2.68)	
Page 404 Fig. 4		Page 404 Fig. 4		Page 404 Fig. 4		Page 404 Fig. 4		Page 404 Fig. 4	
UL, CSA, CE		UL, CSA, CE		UL, CSA, CE		UL, CSA, CE		UL, CSA, CE	
Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
-	-	-	-	-	-	-	-	-	-
-	998471	-	998471	-	998471	-	998471	-	998471

*Consult factory for custom configurations.