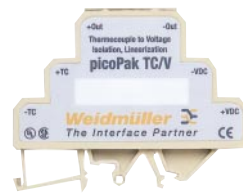


Analog Signal Conditioners

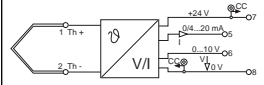
picoPak TC/V

Thermocouple Type K
-100°C...+30°C
Terminal Block



WTS4/WTZ4 TC Select

Thermocouple Types
J, K, T, E, N, R, S, B Configurable
-200°C...+1820°C
Enclosed Pluggable



picoPak TC/I

Thermocouple Type N
-100°C...+1300°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 TC/V	998353	WTS4 Thermo Select	843230	picoPak TC/I	998344
Tension clamp for TS 35 rail			WTZ4 Thermo Select	843231		
Technical Data	Input signal type	Thermocouple Type K	Input signal type	Thermocouple Types J,K,T,E,N,R,S,B Configurable	Input signal type	Thermocouple Type N
Material or excitation	Ni-Cr / Ni-Al					
Input range (min...max.)	-100°C...+30°C*		-200°C...+1820°C (Depending on Type)			-100°C...+1300°C*
Input impedance						
Line resistance						
Input maximum						
Supply voltage (min./max.)	15...30 VDC		24 VDC ± 20% (19.2...28.8 VDC)			15...30 VDC
Supply current (min./max.)	25...30 mA					25...45 mA
Current/power consumption						
Power requirements	External		External			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 or Voltage			Current
Output range	0...10 V*		0...20 mA / 0...10 V			4...20 mA*
Output load/loop resistance	2 kΩ min., 4 kΩ min.					600 Ω max.
Output supply voltage (min./max.)						
Output supply current (max.)						
Cold junction comp error	0.6°C / 0.1°C					0.6°C / 0.1°C
Common mode rejection						
Accuracy input/output	0.05% of full scale nominal, 0.2% max. for voltage output		< 0.5% from FS			0.05% of full scale nominal, 0.2% max. for voltage output
Linearity input/output						
Temperature coefficient			± 200 ppm from FS			
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, 3 port					1500 VAC RMS, 3 port
Dielectric isolation I/O to power supply						
Dielectric isolation I/O to DIN-rail						
Storage temperature range	-40°C...+85°C		-20°C...+85°C			-40°C...+85°C
Operating temperature range	-40°C...+75°C		0°C...+55°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.)	0.6 (5.31)					0.6 (5.31)
Mechanical dimensions (WxLxH) mm (in.)	12x88x68 (.47x3.46x2.68)		12.5x92.4x112.5 (.49x3.64x4.43)			12x88x68 (.47x3.46x2.68)
Dimensional diagram	Page 404 Fig. 4		Page 402 Fig. 1			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			ZQV 2.5N/2	171808		
Cross-connection, red			ZQV 2.5N/2	171790		
Cross-connection, blue			ZQV 2.5N/2	171799		
Cross-connection, yellow			ZQV 2.5N/2	169380		

picoPak TC/V

Thermocouple Type N
-100°C...+1300°C
Terminal Block



picoPak TC/I

Thermocouple Type T
-100°C...+400°C
Terminal Block



picoPak TC/V

Thermocouple Type T
-100°C...+400°C
Terminal Block



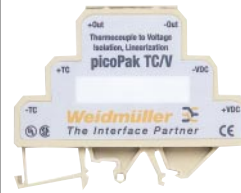
picoPak TC/I

Thermocouple Type T
0°C...+200°C
Terminal Block



picoPak TC/V

Thermocouple Type T
0°C...+200°C
Terminal Block



Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
picoPak TC/V	998354	picoPak TC/I	998345	picoPak TC/V	998355	picoPak TC/I	998346	picoPak TC/V	998356
Thermocouple Type N		Thermocouple Type T		Thermocouple Type T		Thermocouple Type T		Thermocouple Type T	
		Cu / CV-Ni		Cu / CV-Ni		Cu / CV-Ni		Cu / CV-Ni	
-100°C...+1300°C*		-100°C...+400°C*		-100°C...+400°C*		0°C...+200°C*		0°C...+200°C*	
15...30 VDC		15...30 VDC		15...30 VDC		15...30 VDC		15...30 VDC	
25...30 mA		25...45 mA		25...30 mA		25...45 mA		25...30 mA	
External		External		External		External		External	
Voltage		Current		Voltage		Current		Voltage	
0...10 V*		4...20 mA*		0...10 V*		4...20 mA*		0...10 V*	
2 kΩ min., 4 kΩ min.		600 Ω max.		2 kΩ min., 4 kΩ min.		600 Ω max.		2 kΩ min., 4 kΩ min.	
0.6°C / 0.1°C		0.6°C / 0.1°C		0.6°C / 0.1°C		0.6°C / 0.1°C		0.6°C / 0.1°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, 3 port		1500 VAC RMS, 3 port		1500 VAC RMS, 3 port		1500 VAC RMS, 3 port		1500 VAC RMS, 3 port	
-40°C...+85°C		-40°C...+85°C		-40°C...+85°C		-40°C...+85°C		-40°C...+85°C	
-40°C...+75°C		-40°C...+75°C		-40°C...+75°C		-40°C...+75°C		-40°C...+75°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.