

Analog Signal Conditioners

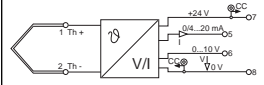
picoPak TC/V

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	Thermocouple Types J,K,T,E,N,R,S,B Configurable	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		