

Analog Signal Conditioners

picoPak TC/V

Thermocouple Type J
-200°C...+760°C
Terminal Block



picoPak TC/I

Thermocouple Type J
0°C...+500°C
Terminal Block



picoPak TC/V

Thermocouple Type J
0°C...+500°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	998348	picoPak TC/I	998339	picoPak TC/V	998349
Tension clamp for TS 35 rail						
Technical Data						
Input signal type	Thermocouple Type J		Thermocouple Type J		Thermocouple Type J	
Material or excitation	Fe / CV-Ni		Fe / CV-Ni		Fe / CV-Ni	
Input range (min...max.)	-200°C...+760°C*		0°C...+500°C*		0°C...+500°C*	
Input impedance						
Line resistance						
Input maximum						
Supply voltage (min./max.)	15...30 VDC		15...30 VDC		15...30 VDC	
Supply current (min./max.)	25...30 mA		25...45 mA		25...30 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		Voltage	
Output range	0...10 V*		4...20 mA*		0...10 V*	
Output load/loop resistance	2 kΩ min., 4 kΩ min.		600 Ω max.		2 kΩ min., 4 kΩ min.	
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		0.6°C / 0.1°C	
Common mode rejection						
Accuracy input/output	0.05% of full scale nominal, 0.2% max. for voltage output		0.05% of full scale nominal, 0.2% max. for voltage output		0.05% of full scale nominal, 0.2% max. for voltage output	
Linearity input/output						
Temperature coefficient						
Transmission frequency	10 Hz		10 Hz		10 Hz	
Coupling method	Optically Isolated		Optically Isolated		Optically Isolated	
Cross-connections on pin						
Operating Specifications						
Dielectric isolation input to output	1500 VAC RMS, 3 port		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		-40°C...+85°C		-40°C...+85°C	
Operating temperature range	-40°C...+75°C		-40°C...+75°C		-40°C...+75°C	
Relative humidity (non-condensing)						
Wire size	#26...12 AWG / 0.5...2.5 mm ²		#26...12 AWG / 0.5...2.5 mm ²		#26...12 AWG / 0.5...2.5 mm ²	
Clamp screw tightening torque Nm (lb.in.)	0.6 (5.31)		0.6 (5.31)		0.6 (5.31)	
Mechanical dimensions (WxLxH) mm (in.)	12x88x68 (.47x3.46x2.68)		12x88x68 (.47x3.46x2.68)		12x88x68 (.47x3.46x2.68)	
Dimensional diagram	Page 404 Fig. 4		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	-	-	-	-	-	-
PC software kit†	-	998471	-	998471	-	998471
Cross-connection, black						
Cross-connection, red						
Cross-connection, blue						
Cross-connection, yellow						