

Analog Signal Conditioners

picoPak V/I
Voltage Input / 0...5 V
Terminal Block



picoPak V/V
Voltage Input / 0...5 V
Terminal Block



picoPak V/I
Voltage Input / ±10 mV
Terminal Block



Ordering Data	picoPak V/I		picoPak V/V		picoPak V/I	
	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 V/I	998310	picoPak V/V	998314	picoPak V/I	998411
Tension clamp for TS 35 rail						
Technical Data	picoPak V/I		picoPak V/V		picoPak V/I	
Input signal type	Voltage		Voltage		Voltage	
Material or excitation						
Input range (min...max.)	0...5 V*		0...5 V*		±10 mV*	
Input impedance	100 kΩ min.		100 kΩ min.		100 kΩ min.	
Line resistance						
Input maximum						
Supply voltage (min./max.)	15...30 VDC		15...30 VDC		15...30 VDC	
Supply current (min./max.)	25...45 mA		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	Current		Voltage		Current	
Output range	4...20 mA*		0...10 V*		4...20 mA*	
Output load/loop resistance	600 Ω max.		2 kΩ min., 4 kΩ min.		600 Ω max.	
Output supply voltage (min./max.)						
Output supply current (max.)						
Cold junction comp error						
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						

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picoPak V/I
Voltage Input / ± 300 mV
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Voltage Input / ± 300 mV
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picoPak V/V
Voltage Input / ± 300 mV
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Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
picoPak V/V	998413	picoPak V/V	998415	picoPak V/I	998412	picoPak V/V	998414	picoPak V/V	998416
Voltage		Voltage		Voltage		Voltage		Voltage	
± 10 mV*		± 10 mV*		± 300 mV*		± 300 mV*		± 300 mV*	
100 k Ω min.		100 k Ω min.		100 k Ω min.		100 k Ω min.		100 k Ω min.	
15...30 VDC 25...30 mA		15...30 VDC 25...30 mA		15...30 VDC 25...45 mA		15...30 VDC 25...30 mA		15...30 VDC 25...30 mA	
External		External		External		External		External	
Voltage ± 5 V*		Voltage ± 10 V*		Current 4...20 mA*		Voltage ± 5 V*		Voltage ± 10 V*	
2 k Ω min., 4 k Ω min.		2 k Ω min., 4 k Ω min.		600 Ω max.		2 k Ω min., 4 k Ω min.		2 k Ω min., 4 k Ω min.	
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...+75°C		-40°C...+85°C -40°C...+75°C		-40°C...+85°C -40°C...+75°C		-40°C...+85°C -40°C...+75°C		-40°C...+85°C -40°C...+75°C	
#26...12 AWG / 0.5...2.5 mm ² 0.6 (5.31) 12x88x68 (.47x3.46x2.68) Page 404 Fig. 4		#26...12 AWG / 0.5...2.5 mm ² 0.6 (5.31) 12x88x68 (.47x3.46x2.68) Page 404 Fig. 4		#26...12 AWG / 0.5...2.5 mm ² 0.6 (5.31) 12x88x68 (.47x3.46x2.68) Page 404 Fig. 4		#26...12 AWG / 0.5...2.5 mm ² 0.6 (5.31) 12x88x68 (.47x3.46x2.68) Page 404 Fig. 4		#26...12 AWG / 0.5...2.5 mm ² 0.6 (5.31) 12x88x68 (.47x3.46x2.68) 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.