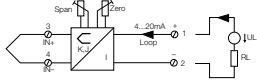
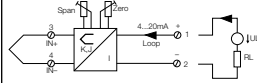


# Analog Signal Conditioners

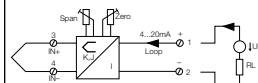
**DKT / TC/1**  
Thermocouple Type K  
0°C...+400°C  
Terminal Block



**DKT / TC/1**  
Thermocouple Type K  
0°C...+600°C  
Terminal Block



**DKT / TC/1**  
Thermocouple Type K  
0°C...+800°C  
Terminal Block



Ordering Data	Type	Part No.	Type	Part No.	Type	Part No.
	Screw clamp for TS 35 rail	DKT / K-I / 35	980253	DKT / K-I / 35	980255	DKT / K-I / 35
Screw clamp for TS 32 rail					DKT / K-I / 32	980256
Screw clamp for combi-foot, TS 35 or TS 32 rail						
Tension clamp for TS 35 rail						
Technical Data	<b>Input signal type</b>		<b>Thermocouple Type K</b>		<b>Thermocouple Type K</b>	
Material or excitation	Ni-Cr / Ni-Al		Ni-Cr / Ni-Al		Ni-Cr / Ni-Al	
<b>Input range (min...max.)</b>	<b>0°C...+400°C</b>		<b>0°C...+600°C</b>		<b>0°C...+800°C</b>	
Input impedance						
Line resistance						
Input maximum	25 mA DC		25 mA DC		25 mA DC	
Supply voltage (min./max.)						
Supply current (min./max.)						
Current/power consumption						
<b>Power requirements</b>	<b>External</b>		<b>External</b>		<b>External</b>	
Continuous current rating						
Response or switching freq. max.						
Supply current to PT 100 sensor						
Zero setting (4.0 mA) adjustment	-10°C...+260°C		-10°C...+260°C		-10°C...+260°C	
Span adjustment (20 mA)	360°C...440°C		540°C...660°C		720°C...880°C	
<b>Output signal type</b>	<b>Current</b>		<b>Current</b>		<b>Current</b>	
<b>Output range</b>	<b>4...20 mA</b>		<b>4...20 mA</b>		<b>4...20 mA</b>	
Output load/loop resistance	0...1 kΩ		0...1 kΩ		0...1 kΩ	
Output supply voltage (min./max.)	18...32 VDC		18...32 VDC		18...32 VDC	
Output supply current (max.)						
Cold junction comp error	±1°C (for amb change of 0-40°C)		±1°C (for amb change of 0-40°C)		±1°C (for amb change of 0-40°C)	
Common mode rejection						
Accuracy input/output	±0.5% of FS		±0.5% of FS		±0.5% of FS	
Linearity input/output	0.05% max.		0.05% max.		0.05% max.	
Temperature coefficient	0.012%/°C max.		0.012%/°C max.		0.012%/°C max.	
Transmission frequency						
<b>Coupling method</b>	<b>Direct</b>		<b>Direct</b>		<b>Direct</b>	
Cross-connections on pin						
Operating Specifications	Dielectric isolation input to output					
Dielectric isolation I/O to power supply						
Dielectric isolation I/O to DIN-rail						
Storage temperature range	-20°C...+70°C		-20°C...+70°C		-20°C...+70°C	
Operating temperature range	-10°C...+55°C		-10°C...+55°C		-10°C...+55°C	
Relative humidity (non-condensing)	Up to 95%		Up to 95%		Up to 95%	
Wire size	#20...12 AWG / 0.5...2.5 mm <sup>2</sup>		#20...12 AWG / 0.5...2.5 mm <sup>2</sup>		#20...12 AWG / 0.5...2.5 mm <sup>2</sup>	
Clamp screw tightening torque Nm (lb.in.)	0.5 (4.38)		0.5 (4.38)		0.5 (4.38)	
Mechanical dimensions (WxLxH) mm (in.)	6x65x57 (.24x2.56x2.24)		6x65x57 (.24x2.56x2.24)		6x65x57 (.24x2.56x2.24)	
Dimensional diagram	Page 404 Fig. 2		Page 404 Fig. 2		Page 404 Fig. 2	
Insulation stripping length mm (in.)	9 (.35)		9 (.35)		9 (.35)	
Certification standards	CE		CE		CE	
Accessories	Type	Part No.	Type	Part No.	Type	Part No.
End plate side cover	AP (1.5)	68756	AP (1.5)	68756	AP (1.5)	68756
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 TC/I**

Thermocouple Type K  
0°C...+100°C  
Terminal Block



**picoPak TC/V**

Thermocouple Type K  
0°C...+100°C  
Terminal Block



**picoPak TC/I**

Thermocouple Type K  
0°C...+1200°C  
Terminal Block



**picoPak TC/V**

Thermocouple Type K  
0°C...+1200°C  
Terminal Block



**picoPak TC/I**

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



Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
picoPak TC/I	998341	picoPak TC/V	998351	picoPak TC/I	998342	picoPak TC/V	998352	picoPak TC/I	998343
<b>Thermocouple Type K</b>		<b>Thermocouple Type K</b>		<b>Thermocouple Type K</b>		<b>Thermocouple Type K</b>		<b>Thermocouple Type K</b>	
Ni-Cr / Ni-Al		Ni-Cr / Ni-Al		Ni-Cr / Ni-Al		Ni-Cr / Ni-Al		Ni-Cr / Ni-Al	
0°C...+100°C*		0°C...+100°C*		0°C...+1200°C*		0°C...+1200°C*		-100°C...+30°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	
<b>External</b>		<b>External</b>		<b>External</b>		<b>External</b>		<b>External</b>	
<b>Current</b>		<b>Voltage</b>		<b>Current</b>		<b>Voltage</b>		<b>Current</b>	
4...20 mA*		0...10 V*		4...20 mA*		0...10 V*		4...20 mA*	
600 Ω max.		2 kΩ min., 4 kΩ min.		600 Ω max.		2 kΩ min., 4 kΩ min.		600 Ω max.	
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	
<b>Optically Isolated</b>		<b>Optically Isolated</b>		<b>Optically Isolated</b>		<b>Optically Isolated</b>		<b>Optically Isolated</b>	
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 <sup>2</sup> 0.6 (5.31)		#26...12 AWG / 0.5...2.5 mm <sup>2</sup> 0.6 (5.31)		#26...12 AWG / 0.5...2.5 mm <sup>2</sup> 0.6 (5.31)		#26...12 AWG / 0.5...2.5 mm <sup>2</sup> 0.6 (5.31)		#26...12 AWG / 0.5...2.5 mm <sup>2</sup> 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	
<b>Type</b>	<b>Part No.</b>	<b>Type</b>	<b>Part No.</b>	<b>Type</b>	<b>Part No.</b>	<b>Type</b>	<b>Part No.</b>	<b>Type</b>	<b>Part No.</b>
-	-	-	-	-	-	-	-	-	-
-	998471	-	998471	-	998471	-	998471	-	998471

\*Consult factory for custom configurations.