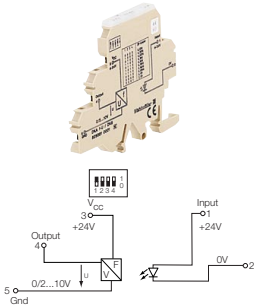


Analog Signal Conditioners

DK5 / F-V

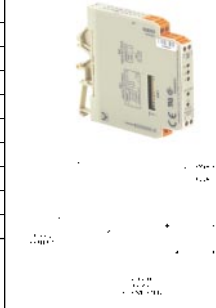
Frequency Input / Variable Range
Terminal Block



1	2	3	4	DIP Switch
0	0	0	X	0...50 Hz
1	0	0	X	0...100 Hz
0	1	0	X	0...500 Hz
1	1	0	X	0...1 kHz
0	1	1	X	0...5 kHz
1	0	1	X	0...10 kHz
1	1	1	X	0...16 kHz
0	0	1	X	Customer specific
X	X	X	0	0...10 V
X	X	X	1	2...10 V

UPAC Frequency

2...10,000 Hz
Enclosed



Ordering Data	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	DK5 / F-V	828381	UPAC Isolator Freq. Input	828035
Tension clamp for TS 35 rail				
Technical Data				
Input signal type	Frequency		Frequency	
			50 mV...150 V RMS	
Material or excitation				
Input range (min...max.)	‡See below		2...10,000 Hz	
Input impedance	10 kΩ		>10 kΩ	
Line resistance				
Input maximum			180 V RMS max.	
Supply voltage (min./max.)			9...30 VDC	
Supply current (min./max.)			83...166 mA	
Current/power consumption	32 mA + I _{load}		1.5 to 2.5 W	
Power requirements	External		External	
Continuous current rating				
Response or switching freq. max.			250 ms or 100% of FS Freq.	
Supply current to PT 100 sensor				
Zero setting (4.0 mA) adjustment	No		99% of full scale input (9998 Hz)	
Span adjustment (20 mA)	No		99% of full scale input (2 Hz)	
Output signal type	Voltage		Current or Voltage	
Output range	0...10 VDC		0...20 mA, 4...20 mA (load<600 Ω)	
			0...1 mA (load<7.5 kΩ)	
			0...5 V, 0...10 V (load >1 kΩ)	
			see spec above	
Output load/loop resistance				
Output supply voltage (min./max.)	24 VDC ±10%			
Output supply current (max.)				
Cold junction comp error				
Common mode rejection				
Accuracy input/output	±0.5% of FS (8 bit res)		At 25°C ±0.1% typ., ± 0.2% max. of full scale	
Linearity input/output				
Temperature coefficient			±0.05% / °C max. of FS	
Transmission frequency				
Coupling method	Optically Isolated		Optically Isolated	
Cross-connections on pin				
Operating Specifications				
Dielectric isolation input to output	2.5 kV		1800 VDC	
Dielectric isolation I/O to power supply			1800 VDC	
Dielectric isolation I/O to DIN-rail	4 kV		1800 VDC	
Storage temperature range	-25°C...+60°C		-25°C...+70°C	
Operating temperature range	0°C...+50°C		0°C...+55°C	
Relative humidity (non-condensing)			-25°C...+70°C	
Wire size	#20...12 AWG / 0.5...2.5 mm ²		#20...12 AWG / 0.5...2.5 mm ²	
Clamp screw tightening torque Nm (lb.in.)	0.5 (4.38)		0.5 (4.38)	
Mechanical dimensions (WxLxH) mm (in.)	6x77x62 (.24x3.03x2.44)		17.7x90x111.5 (.70x3.54x4.39)	
Dimensional diagram	Page 404 Fig. 3			
Insulation stripping length mm (in.)	9 (.35)		7 (.28)	
Certification standards	CE		UL, CSA, CE	
Accessories	Type	Part No.	Type	Part No.
End plate side cover	AP (1.5)	C9039986	-	-
PC software kit†				
Cross-connection, black				
Cross-connection, red				
Cross-connection, blue				
Cross-connection, yellow				

‡0...50 / 100 / 500 Hz
0...1 / 5 / 10 / 16 kHz

†Kit includes PC based Windows® software, cable and configuration manual.

picoPak F/I
Frequency Input / 1...25 kHz
Terminal Block



picoPak F/V
Frequency Input / 1...25 kHz
Terminal Block



picoPak F/I
Frequency Input / 1...200 Hz
Terminal Block



picoPak F/V
Frequency Input / 1...200 Hz
Terminal Block



picoPak F/V
Frequency Input / 1...200 Hz
Terminal Block



Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
picoPak F/I	998417	picoPak F/V	998427	picoPak F/I	998418	picoPak F/V	998423	picoPak F/V	998428
Frequency		Frequency		Frequency		Frequency		Frequency	
1...25 kHz*		1...25 kHz*		1...200 Hz*		1...200 Hz*		1...200 Hz*	
≥ 100 Ω		≥ 100 Ω		≥ 100 Ω		≥ 100 Ω		≥ 100 Ω	
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...30 mA	
External		External		External		External		External	
Current		Voltage		Current		Voltage		Voltage	
4...20 mA*		0...10 V*		4...20 mA*		0...5 V*		0...10 V*	
600 Ω max.		2 kΩ min., 4 kΩ min.		600 Ω max.		2 kΩ min., 4 kΩ min.		2 kΩ min., 4 kΩ 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, 2 port		1500 VAC RMS, 2 port		1500 VAC RMS, 2 port		1500 VAC RMS, 2 port		1500 VAC RMS, 2 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.

ANALOG SIGNAL
CONDITIONERS