Signal Converter PCE-SCI-U

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TransmitterCurrent - Voltage - Temperature Signal converter with more than 100 adjustable combinations / Analogue input signals (0 ... 10V, 4 ... 20-mA, Pt100, thermocouples) in galvanically isolated analogue standard signals

The transmitter converts an analog input signal into a corresponding analog output signal. The input and output signals from the transmitter are completely galvanically isolated. The input and output range is set via two buttons. The type of adjustment is displayed on an internal LED display.

Over 100 different combinations of input and output, as well as the free scaling within the set ranges, make this transmitter a universally applicable device and save an expensive and laborious storage of different types. Since the input and output ranges can also be set identically, the transmitter can also be used for galvanic decoupling. The transmitter is simply snapped onto a C or DIN rail. The signal converter can be operated with a voltage between 18 ... 265V AC / DC.

- Over 100 combinations pre-selected
- Freely scalable
- In less than 5 min. in operation
- Converts analogue input range
- Completely galvanic isolation
- Power supply 18 ... 265V AC / DC

Specifications

Entrance	Measuring range	Accuracy	Overload
Process stream	4 ... 20-mA	< 0.3% of rdg.	Max. 25-mA
Process voltage	0 ... 10V	< 0.3% of rdg.	Max. 25V DC
Potentiometer 0 ... 100%	0 ... 500 Ω 0 ... 20 kΩ	< 1% of rdg.	
Resistance	0 ... 2.5 kΩ 0 ... 5 kΩ 0 ... 10 kΩ 0 ... 25kΩ 0 ... 50 kΩ 0 ... 100kΩ	< 1% of rdg.	
NTC (R25 = 10K, β = 3500)	-60 ... 90°C / -76 ... 194°F	< 1% of rdg.	
NTC (44006)	-60 ... 90°C / -76 ... 194°F 0 ... 90°C / 32 ... 194°F		
Thermocouple type J	0 ... 150°C / 32 ... 302°F 0 ... 300°C / 32 ... 572°F 0 ... 450°C / 32 ... 842°F 0 ... 600°C / 32 ... 1112°F 0 ... 800°C / 32 ... 1472°F 0 ... 1000°C / 32 ... 1832°F 0 ... 1200°C / 32 ... 2192°F	< 0.5% of rdg.	
Thermocouple type K	0 ... 150°C / 32 ... 302°F 0 ... 300°C / 32 ... 572°F 0 ... 450°C / 32 ... 842°F 0 ... 600°C / 32 ... 1112°F 0 ... 800°C / 32 ... 1472°F	< 0.5% of rdg.	

More information

Manual

Manual P2

More product info

Similar products

Subject to change

	0 ... 1000°C / 32 ... 1832°F 0 ... 1350°C / 32 ... 2192°F
Thermocouple type N	0 ... 150°C / 32 ... < 1% of rdg. 302°F 0 ... 300°C / 32 ... 572°F 0 ... 450°C / 32 ... 842°F 0 ... 600°C / 32 ... 1112°F 0 ... 800°C / 32 ... 1472°F 0 ... 1000°C / 32 ... 1832°F 0 ... 1300°C / 32 ... 2192°F
Thermocouple type E	0 ... 150°C / 32 ... < 0.5% of rdg. 302°F 0 ... 300°C / 32 ... 572°F 0 ... 450°C / 32 ... 842°F 0 ... 600°C / 32 ... 1112°F 0 ... 900°C / 32 ... 1652°F
Thermocouple type T	0 ... 100°C / 32 ... < 1% of rdg. 212°F 0 ... 200°C / 32 ... 392°F 0 ... 300°C / 32 ... 572°F 0 ... 400°C / 32 ... 752°F
Thermocouple type R	0 ... 900°C / 32 ... < 2% of rdg. 1652°F 0 ... 1200°C / 32 ... 2192°F 0 ... 1500°C / 32 ... 2732°F 0 ... 1750°C / 32 ... 3182°F
Thermocouple type S	0 ... 900°C / 32 ... < 2% of rdg. 1652°F 0 ... 1200°C / 32 ... 2192°F

	0 ... 1500°C / 32 ... 2732°F 0 ... 1750°C / 32 ... 3182°F	
Pt100 (2- & 3-wire)	-200 ... 200°C / -328 ... 392°F	< 0.5% of rdg.
	-100 ... 100°C / -148 ... 212°F -50 ... 50°C / -58 ... 122°F	
	0 ... 100°C / 32 ... 212°F 0 ... 200°C / 32 ... 392°F 0 ... 300°C / 32 ... 572°F 0 ... 400°C / 32 ... 752°F 0 ... 500°C / 32 ... 932°F 0 ... 600°C / 32 ... 1112°F 0 ... 700°C / 32 ... 1292°F	< 0.3% of rdg.
Pt500	-150 ... 150°C / -238 ... 302°F 0 ... 300°C / 32 ... 572°F 0 ... 630°C / 32 ... 1166°F	< 1% of rdg.
Pt1000	-150 ... 150°C / -238 ... 302°F 0 ... 300°C / 32 ... 572°F 0 ... 630°C / 32 ... 1166°F	< 1% of rdg.
Ni100	-60 ... 180°C / -76 ... 356°F	< 1% of rdg.
Ni1000	-60 ... 180°C / -76 ... 356°F	< 1% of rdg.

Temperature drift	150 ppm / °C / °F
Response time	300 ms (0 ... 99% of rdg.)
Exit	Active: 4 ... 20-mA; Max. Burden 400 Ω Passive: 4 ... 20-mA; Max. 30V loop voltage

Subject to change

	0 ... 10V; Max. Burden 1 kΩ
Attitude	Internal buttons
Display	Internal LED display
Power supply	18 ... 265V AC / DC / 45 ... 65 Hz
Input	< 1.5W
Connectable cable cross-section	1 ... 2.5 mm²
Protection category	2
Isolation	2300 Vrms (max 60 s)
Degree of protection	IP30
Assembly	35 mm DIN rail mounting
Operating conditions	0 ... 50°C / 32 ... 122°F non-condensing
Storage conditions	-20 ... 70°C / -4 ... 158 356°F non-condensing
Heating time	Approx. 15 min.
Dimensions	106 x 108 x 22.5 mm / 4.2 x 4.3 x 0.9 in
Weight	About 150 g / < 1 lb