



E-KC-102 SERIES

TWO WIRE HEAD-MOUNTED TYPE TEMPERATURE CONVERTER



■ DESCRIPTION

E-KC-102 Series two wire head type temperature converters are electronic units designed by using microcontroller, inside plastic roller, capable of being installed inside thermocouple or resistance thermometer head. They convert the thermocouple and resistance thermometer values into a standard 4-20mA current signal in all areas of the industry.

The configuration of the converter can be easily done by the user in the desired manner through the software installed, by connecting it to the PC via a connection cable using the USB interface.

■ TECHNICAL SPECIFICATIONS

Sensor Connection	3 wire or 4 wire
Error Signaling	Wire Break (Output current can be configured Up/Down)
Operating Temperature	-10°C ... 55°C
Supply Voltage	10-30 V DC
Output Signal	4-20 mA / 20-4 mA
Sensors	Thermocouple: J, K, L Resistance Thermometer: Pt-50, Pt-100, Pt-500, Pt-1000, Ni-50, Ni-100, Ni-120, Ni-200, Ni-500, Ni-1000
Protection Class	IP 00, IP 66 (DIN 43729 mounted on type B head)
Dimensions	Ø 44.0 mm x 21.5 mm
Weight (approx.)	40 gr



- This converter complies with the EMC Directive 2004/108/EC by the application of EMC standard TS EN 61326.

■ OPERATING RANGES AND MEASURING ACCURACY

Sensor		Standard	Lower Limit	Upper Limit	Minimum Span	Accuracy	
						A/D	D/A
RT	Pt-50	IEC 60751	-200°C	850°C	50°C	±0.5°C	±0.1% Span
	Pt-100		-200°C	850°C	50°C	±0.25°C	
	Pt-500		-200°C	850°C	50°C	±0.25°C	
	Pt-1000		-200°C	850°C	50°C	±0.25°C	
	Ni-50	DIN 43760	-60°C	180°C	50°C	±0.25°C	
	Ni-100		-60°C	180°C	50°C	±0.25°C	
	Ni-120		-60°C	180°C	50°C	±0.25°C	
	Ni-200		-60°C	180°C	50°C	±0.25°C	
	Ni-500		-60°C	180°C	50°C	±0.25°C	
	Ni-1000		-60°C	180°C	50°C	±0.25°C	
TC	J	IEC 60584	-200°C	1100°C	50°C	±0.50°C	
	K		-200°C	1300°C	50°C	±0.50°C	
	L	DIN 43710	-200°C	900°C	50°C	±0.50°C	

If the input type and scale is not specified while ordering, factory settings are:
For KC-102-RT **Input Type:** Pt-100, and **Scale:** 0-200°C, For KC-102-TC **Input Type:** Type K, and **Scale:** 0-400°C.

■ ORDERING GUIDE

E-KC-102 Series Two Wire Head-Mounted Type Temperature Converter

E-KC-102 -W

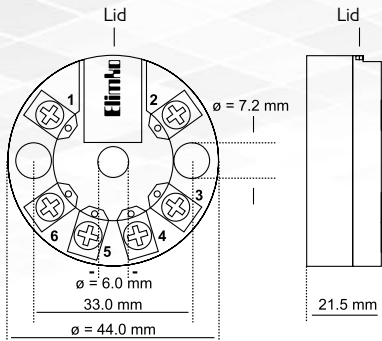
Standard Features

Scale configured by the customer

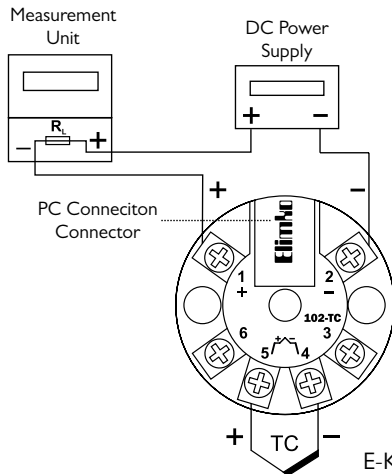
Input

Resistance Thermometer R
Thermocouple T

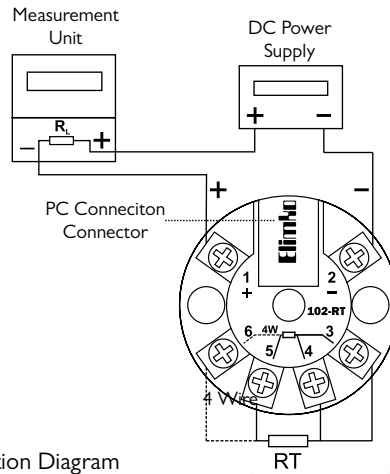
■ DIMENSIONS



■ CONNECTIONS



E-KC-102-T Connection Diagram



E-KC-102-R Connection Diagram

Elimko

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