

E-KC-200-H SERIES HEAD-MOUNTED TYPE TEMPERATURE CONVERTER WITH HART PROTOCOL



DESCRIPTION

E-KC-200-H is a head-mounted type two-wire temperature transducer conforming to the HART protocol. Converter converts the measured value to a 4-20mA current signal according to the configured scale. Thermocouple and resistance thermometer type temperature sensors can be connected to the input of the converter.

DC mV and resistor can also be connected to the converter input.

E-KC-200-H converter can be configured with the HART configurator or a special PC software available from Elimko.

Installation, repair and maintenance service of E-KC-200-H should be done by trained technical personnel. The technical staff who will do this should read and understand the manual of the converter carefully and intervene.

If the information given in the user manual is not sufficient, your company should contact Elimko. Making modifications for the converter or rendering repair-maintenance services in case of malfunction can only be allowed as permitted in user manual.

Company using the product, may perform installation in conformity with the national regulations and realize repair-maintenance.



- This controller complies with the European Low Voltage Directive 2006/95/EC, by the application of safety standard TS EN 61010-1. (Pollution degree 2)
- This controller complies with the EMC Directive 2004/108/EC by the application of EMC standard TS EN 61326.

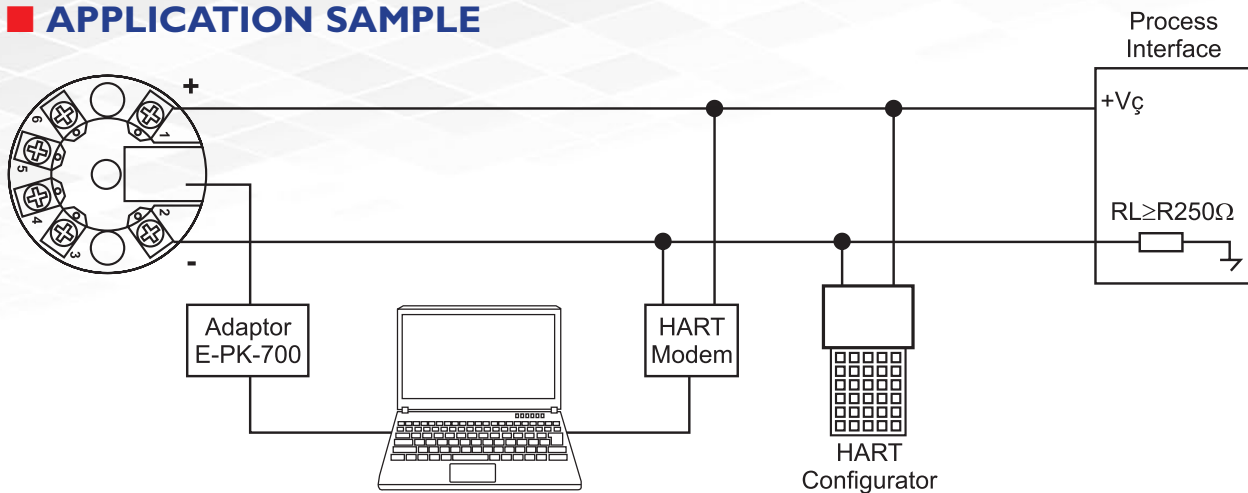
TECHNICAL SPECIFICATIONS

Power Supply	9.0 – 36 V DC
Voltage Drop	9.0 V
Isolation Voltage	1,0 kV AC
Operating Environment Temperature	-20°C to +60°C
Storage Temperature	-25°C ... 65°C
Operating Environment Moisture	< 95% RH (Non-condensing)
Protection Class	IP00
Calibration Temperature	25°C ± 3°C
Dimensions	Ø 44.0 mm x 22.0 mm
Connection Cables	Max. 1.5 mm ² (AWG 16)
Output	4-20 or 20-4 mA
Sensors	Thermocouple: B, E, J, K, N, R, S, T, L, U Resistance Thermometer: Pt-50, Pt- 100, Pt-500, Pt-1000, Ni-50, Ni100, Ni-120, Ni-200, Ni-500, Ni-1000 Milivolt: -200 and 1000 mV Resistance: 0 and 5000 ohm
Load Resistance	< (V _{cc} -9) / 0.021) Ω
Fault Warning	3.8 mA or 21.0 mA
Reading Rate	2 reading/second
CJC Fault (Thermocouple Input)	< ±1.0°C
EMC Immunity	< ± 0,5% Full Scale
Heating Period	Approximately 5 Minutes
Communication Interface	HART 7
Damping Setting	0 - 60 seconds
Weight	60 g

STANDARD WORKING LIMITS

Sensor	Standard	Lower Limit	Top Limit	Minimum Scale	Accuracy		
					A/D	D/A	
RTD	Pt-50	IEC 60751	-200°C	840°C	25°C	±0.50°C	±0.1% Full scale
	Pt-100		-200°C	840°C	25°C	±0.25°C	
	Pt-500		-200°C	840°C	25°C	±0.25°C	
	Pt-1000		-200°C	840°C	25°C	±0.25°C	
	Ni-50	DIN 43760	-60°C	240°C	25°C	±0.50°C	
	Ni-100		-60°C	240°C	25°C	±0.25°C	
	Ni-120		-60°C	240°C	25°C	±0.25°C	
	Ni-200		-60°C	240°C	25°C	±0.25°C	
	Ni-500		-60°C	240°C	25°C	±0.25°C	
	Ni-1000		-60°C	240°C	25°C	±0.25°C	
T/C	B	IEC 60584	100°C	1800°C	100°C	±2.00°C	
	E		-200°C	1000°C	50°C	±0.50°C	
	J		-200°C	1120°C	50°C	±0.50°C	
	K		-200°C	1360°C	50°C	±0.50°C	
	N		-200°C	1300°C	50°C	±0.50°C	
	R		-200°C	1760°C	100°C	±1.00°C	
	S		-200°C	1760°C	100°C	±1.00°C	
	T		-200°C	400°C	50°C	±0.50°C	
	L	DIN 43710	-200°C	900°C	50°C	±0.50°C	
	U		-200°C	600°C	50°C	±0.50°C	
mV	-	-200mV	1000mV	25mV	±0.075mV		
ohm	-	0Ω	5000Ω	50Ω	±0.50Ω		

APPLICATION SAMPLE



DIMENSIONS

