



E-700 SERIES SIGNAL CONVERTERS



DESCRIPTION

E-700 Series signal converters are new generation microcontroller based industrial instruments in a plastic case suitable for rail mounting. E-700 Series are general purpose converters which can be used to convert thermocouples, resistance thermometers and other sensor voltages, currents or pulses to standard currents.

The configuration of the converter is performed by PC using a software program supplied by Elimko. USB connection hardware is also available from Elimko.

The E-700 Series have a wide-range of applications, especially for integration of SCADA, DCS, PLC systems through RS485 interface unit.

Filtering features avoid the effect of electrical noise activity in industrial areas.

TECHNICAL SPECIFICATIONS

Accuracy Class	0.5
Noise Suppression	120 dB 50 Hz
Operating Temperature	-10 °C ... 55 °C
Temperature Comp.	%0.01 / °C
CJ Error	0.2 °C / °C
Operating Temperature	-25 °C ... 65 °C
Sensors	T/C R/T, resistance mV, V mA pulse Loadcell
Power Supply	85-265 V AC / 85-375 V DC 20-60 V AC / 20-85 V DC
Output	0-20 mA / 4-20 mA 0-10 V DC
Output Mode	Direct / Reverse programmable
Input / Output Isolation	750 V AC
R/T Line Resistance	Max. 100 Ω
T/C Line Resistance	Max. 100 Ω
Linearization	On/Off (programmable T/C and R/T)
Programme Interface	USB
Communication Interface	RS485
Power Consumption	4 W
Mounting	Snaps on M36 DIN (EN 50022) Rails
Protection Class	IP 20
Weight	140 gr



- 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.

STANDARD WORKING LIMITS

Inputs	Standart	Min.	Max.	Min. S.
TC Type B	IEC 60584-1	0°C	1800°C	200°C
TC Type E	IEC 60584-1	-150°C	850°C	50°C
TC Type J	IEC 60584-1	-200°C	1100°C	50°C
TC Type K	IEC 60584-1	-200°C	1300°C	50°C
TC Type L	DIN 43710	-200°C	900°C	50°C
TC Type N	IEC 60584-1	-200°C	1200°C	50°C
TC Type R	IEC 60584-1	0°C	1760°C	200°C
TC Type S	IEC 60584-1	0°C	1760°C	200°C
TC Type T	IEC 60584-1	-200°C	400°C	50°C
TC Type U	DIN 43710	-200°C	600°C	50°C
Pt-100	IEC 60751	-200°C	800°C	10°C
Pt-50	IEC 60751	-200°C	800°C	10°C
Pt-500	IEC 60751	-200°C	800°C	10°C

Inputs	Standart	Min.	Max.	Min. S.
Pt-1000	IEC 60751	-200°C	800°C	10°C
Ni-100	DIN 43760	-60°C	85°C	10°C
Ni-200	-	-60°C	180°C	10°C
Ni-500	-	-60°C	180°C	10°C
Ni-1000	-	-60°C	180°C	10°C
Resistance	-	0Ω	5000Ω	20Ω
mV	-	-1500 mV	1500 mV	10 mV
mA	-	0/4 mA	20 mA	1 mA
V	-	-100 V	100 V	1 V
Pulse	-	0.01 Hz	60000 Hz	0.1 Hz
Pulse	-	0 Hz	60000 Hz	100 Hz
Modbus	-	-32767	32767	100

ORDERING GUIDE

E-700 Series Signal Converters

E-700 -W- X - Y - Z

Standard Features

Configurable by the customer

Input

mV, mA, resistance, pulse, V, Modbus, RT, TC configurable by the user 3
 Loadcell input mV/V (Specify loadcell type during placing order) 4
 (E-PK-700-I2 and E-Y-700-V2 configurable by the user)

Analog Output

0-20 mA / 4-20 mA (isolated) 1
 0-10 V DC (isolated) 2

Communication

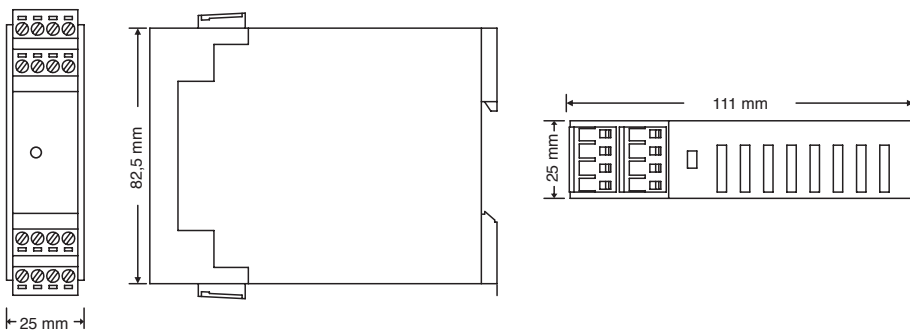
None 0
 RS485 Modbus 1

Power Supply

85-265 V AC / 85-375 V DC 0
 20-60 V AC / 20-85 V DC 1
 * Two wire, 24 V DC 2

* Analog output should be selected "1" for 4-20 mA

DIMENSIONS



The company's policy is one of continuous product improvement. We reserve the right to modify the information contained herein without notice.



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 f /elimkoldsti
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