Elimko

E-70 SERIES

DIGITAL INDICATING CONTROLLERS



DESCRIPTION

E-70 Series controllers are designed using new generation microcontrollers for on/off and PID control. The unit has dimensions of 72x72 mm, conforming IEC/TR 60668.

E-70 Series have a 4 digits LED display range between -1999 and +9999, configurable universal inputs (T/C, R/T, mA) with 16 bit resolution, low calibration drifts with environmental conditions.

E-70 Series controllers have easy programing facilities to provide on/off and PID forms are used in every field ofindustry for measurement and control of temperature, pressure, level, current, voltage, resistance and other process parameters in industries such as iron & steel, cement, plastic, chemistry, metallurgy, petrochemical plants, refineries, ceramic, glass and others.

STANDARD WORKING LIMITS

Inputs	Туре	Min.	Max.
Fe-Const	Type-J	-200°C	1100°C
NiCr-Ni	Туре-К	-200°C	1300°C
Fe-Const	Type-L*	-200°C	850°C
Pt-100	Pt-100 ∝=0.385	-200°C	850°C
Pt10%Rh-Pt	Type-S	0°C	1600°C
Analog Inputs (mA)	4-20	-1999	9999

* DIN 43710 standards, others conform to IEC 60584-1. E-70 Series instruments are general purpose and can be configured according to the application.

■ TECHNICAL SPECIFICATIONS

Accuracy Class	0.5	
Display Resolution	1/9999	
Display	1x4 Digit LED (7 mm)	
A/D Conversion	16 bit	
Reading Speed	2 readings / second	
Input Resistance	T/C, mV \geq 1 M Ω mA, \leq 51 Ω	
Noise Suppression	120 dB 50 Hz	
Operating Temperature	-10 55°C	
Temperature Comp.	0 50°C	
Power Supply	220 V AC 24 V AC	
Power Consumption	Max. 2.5 W	
Relay Output	NA Contact 250 V AC 5 A T/C, R/T, mA	
Input Signal		
Sensors	Thermocouple Resistance thermometer	
Protection Class	IP 66 front panel (NEMA 4X) IP 20 rear panel	
Memory	EEPROM max. 10⁵ writing	
Weight	380 gr	

CE

- 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.

FEATURES

Set Adjustment	Between span limits
Control Form	On/Off, PID
Control Outputs	NO
Dead Band (Hysterisis)	0-9999 (EU)*

Proportional Band (Pb)	0-9999 (EU)*
Integral Time (It)	0-9999 (seconds)
Derivative Time (Dt)	0-9999 (seconds)
Ct (Cycle time)	PID 132 (seconds)

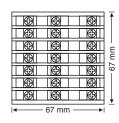
^{* (}EU) °C for the thermocouples and resistance thermometer inputs, for the linear inputs, same with the units which is controlled. Decimal point can be determined by parameter of dP.

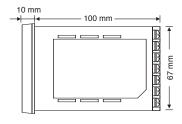
ORDERING GUIDE

E-70 -W-X-Y-Z E-70 Series Controllers **Standard Features Relay Outputs** None .. 1 relay 1 x (NO). 1 relay 1 x (NO) + 1 relay 1 x (NO-0-NC) Pulse Voltage to drive SSR, 24 V DC / 20 mA Pulse Voltage to drive SSR, 24 V DC / 20 mA + 1 relay 1 x (NO-0-NC) **Input Types** Fe-Const (J) 0-400°C ... Fe-Const (L) 0-400°C NiCr-Ni (K) 0-1200°C Pt%10Rh-Pt (S) 0-1600°C Pt-100 (Pt) 0-200°C 4-20 mA, -1999 / 9999 Note: Please specify your working range and input for orders outside the standard input and range. **Analog Outputs** None **Power Supply** 220 V AC ± %10 24 V AC ± %10

DIMENSIONS







Panel cut-out = 68 x 68 mm





