Elimko

E-72 SERIES

DIGITAL INDICATING CONTROLLERS



DESCRIPTION

E-72 Series controllers are designed using new generation microcontrollers for on/off and PID control. Unit dimensions are 72x72 mm, conforming to IEC/TR 60668.

The E-72 Series has a 2x4 digits LED display range from -1999 to +9999 and configurable universal inputs (T/C, R/T, mV, mA) with 16 bit resolution, low calibration drifts with environmental conditions.

■ TECHNICAL SPECIFICATIONS

Accuracy Class	0.5	
Display Resolution	1/9999	
Display	2x4 Digit LED (10 mm)	
A/D Conversion	16 bit	
D/A Conversion	12 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	85-265 V AC / 85-375 V DC 20-60 V AC / 20-85 V DC	
Power Consumption	Max. 7 W	
Relay Output	NA Contact 250 V AC 5 A	
Input Signal	T/C, R/T, mA, mV	
Sensors	Thermocouple Resistance thermometer Others= Standard and nonstandard transmitters and converters	
Memory	EEPROM max. 10 ⁵ writing	
Protection Class	IP66 front panel (NEMA 4X) IP20 rear panel	
Weight	232 gr	

E-72 Series controllers have easy programming facilities to provide on/off and PID forms and are used in every field of the industry for measurement and control of temperature, pressure, level, current, voltage, resistance and other process parameters in the industries such as iron & steel, cement, plastic, chemistry, metallurgy, petrochemical plants, refineries, ceramic, glass and others.

STANDARD WORKING LIMITS

Inputs	Туре	Min.	Max.
Cu-Const	Туре-U*	-200°C	600°C
Cu-Const	Туре-Т	-200°C	400°C
Fe-Const	Type-L*	-200°C	850°C
Fe-Const	Туре-Ј	-200°C	1100°C
NiCr-Ni	Туре-К	-200°C	1300°C
Cr-Const	Туре-Е	-200°C	1000°C
Nicrosil-Nisil	Туре-N	-200°C	1200°C
Pt%10Rh-Pt	Туре-S	0°C	1760°C
Pt%13Rh-Pt	Туре-К	0°C	1760°C
Pt%18Rh-Pt	Туре-В	60°C	1800°C
Pt-100	∝=0.385	-200°C	840°C
mV	0-1000 mV	-1999 unit	9999 unit
mA	0-20 mA/4-20 m A	-1999 unit	9999 unit

* DIN 43710 standards, others conform to IEC 60584-1. E-72 Series instruments are general purpose and can be configured according to the application.

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 set point limits
Contact Forms	Low (LO), High (HI), Lob, Hlb, Lod, Hld
Dead Band (Hysterisis)	0-999.9 (EU)*
Resolution	0.1 or 1
Proportional Band (Pb)	0.1-999.9 (EU)*

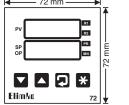
Integral Time (It)	0-3600 seconds
Derivative Time (Dt)	0-3600 seconds
Bias	% 0-100
Control Form	On / Off, PID
Control Outputs	0-20 mA, 4-20 mA, NA Contact, SSR

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

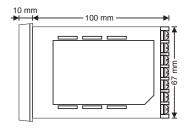
ORDERING GUIDE

E-72 Series Controllers E-72 -W-X-Y-Z **Standard Features** • Programmable universal inputs • Programmable universal outputs • Transmitter power supply 24 V DC • Auto-tune Configurable by the customer **Relay Outputs** None .. 1 relay 1 x (NO-0) .. 2 relay 2 x (NO-0) Pulse Voltage to drive SSR, 24 V DC / 20 mA Pulse Voltage to drive SSR, 24 V DC / 20 mA + 1 relay 1x (NO-0) **Analog Outputs** 0-20 mA / 4-20 mA (non-isolated) 0-10 V DC Communication **Power Supply** 85-265 V AC / 85-375 V DC 20-60 V AC / 20-85 V DC E - 72 - 0 - 0 - 0 - 0 1 - 0 - 0 - 0 Sample Indicator works with 220 V AC One relay output, works with 220 V AC E - 72 - 2 - 1 - 0 - 1 Two relays and one analog output, works with 24 V DC

DIMENSIONS



			_
	(P)		î
	(P)	(B)	
	(P)	(49)	mm -
	(P)		
	(P)	(B)	- 67
	(P)		
	(P)		Ţ
₩	- 67 mm ·	-	*



Panel cut-out = 68 x 68 mm



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



