

DESCRIPTION

E-49 Series controllers are designed using new generation micro-controllers for on/off and PID control. The unit has dimensions of 48x96 mm, conforming IEC/TR 60668.

E-49 Series have a 2x4 digits LED display range between -1999 and +9999, configurable universal inputs (T/C, R/T, mV, mA) with 16 bit resolution, low calibration drifts with environmental conditions.

E-49 Series controllers have easy programming facilities to provide on/off and PID forms and are used in every field of industry 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.

FEATURES

Set Adjustment	Between span limits	
Contact Forms	Low (LO), High (HI) Lob, HIb, Lod, HId	
Dead Band (Hysterisis)	0-999.9 (EU)*	
Resolution	0.1 or 1	
Proportional Band (Pb)	0.1-999.9 (EU)*	
Integral Time (It)	0-9999 seconds	
Derivative Time (Dt)	0-2500 seconds	
Bias	%0-100	
Control Form	On / Off, PID	
Control Outputs	0-20 mA, 4-20 mA, 0-10 V DC NA Contact, SSR	

^{* (}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.

■ 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 non-standard transmitters and converters	
Memory	EEPROM max. 10 ⁵ writing	
Protection Class	Front panel IP66 (NEMA 4X) Rear panel IP20	
Weight	220 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.

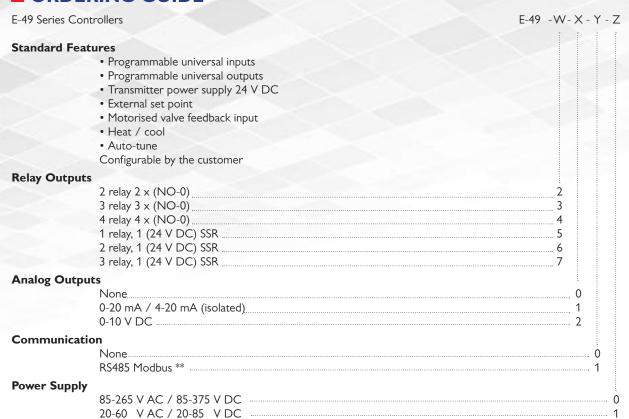
STANDARD WORKING LIMITS

Inputs	Туре	Min.	Max.
Cu-Const	Type-U*	-200°C	600°C
Cu-Const	Туре-Т	-200°C	400°C
Fe-Const	Type-L*	-200°C	900°C
Fe-Const	Type-J	-200°C	1100°C
NiCr-Ni	Туре-К	-200°C	1300°C
Cr-Const	Туре-Е	-200°C	800°C
Nicrosil-Nisil	Type-N	-200°C	1300°C

Inputs	Туре	Min.	Max.
Pt%10Rh-Pt	Type-S	0°C	1760°C
Pt%13Rh-Pt	Type-R	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 / 4-20 mA	-1999 unit	9999 unit

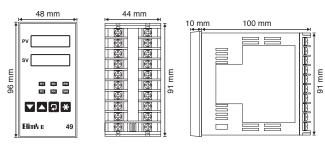
^{*} DIN 43710 standards, others conform to IEC 60584-1. E-49 Series instruments are general purpose and can be configured according to the application.

ORDERING GUIDE



 $[\]ensuremath{^{**}}$ If the communication option is not selected, E-49 can control the valve as standard.

DIMENSIONS



Panel cut-out = 45 x 92 mm



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



