

E-58 SERIES DIGITAL INDICATING CONTROLLERS



DESCRIPTION

E-58 Series controllers are designed using new generation microcontrollers for on/off and PID control. The unit has dimensions of 48x48 mm, conforming IEC/TR 60668.

E-58 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-58 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 set point limits
Contact Forms	Low (LO), High (HI) Lob, Hlb, Lod, Hld
Dead band (Hysteresis)	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	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 (7 mm)
A/D Conversion	16 bit
Reading Speed	2 readings/second
Input Resistance	T/C, mV $\geq 1 \text{ M}\Omega$ mA, $\leq 51 \Omega$
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	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
Weight	200 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	Type	Min.	Max.
Cu-Const	Type-U*	-200 °C	600 °C
Cu-Const	Type-T	-200 °C	400 °C
Fe-Const	Type-L*	-200 °C	900 °C
Fe-Const	Type-J	-200 °C	1100 °C
NiCr-Ni	Type-K	-200 °C	1300 °C
Cr-Const	Type-E	-200 °C	800 °C
Nicrosil-Nisil	Type-N	-200 °C	1300 °C

Inputs	Type	Min.	Max.
Pt%10Rh-Pt	Type-S	0 °C	1760 °C
Pt%13Rh-Pt	Type-R	0 °C	1760 °C
Pt%18Rh-Pt	Type-B	60 °C	1800 °C
Pt 100	$\alpha=0.385$	-200 °C	840 °C
mV	0-1000mV	-1999 unit	9999 unit
mA	0-20 mA	-1999 unit	9999 unit

* DIN 43710 standards, others conform to IEC 60584-1.
E-58 Series instruments are general purpose and can be configured according to the application.

ORDERING GUIDE

E-58 Series Controllers

E-58 -W- X - Y - Z

Standard Features

- Programmable universal inputs
 - Auto-tune
- Configurable by the customer

Relay Outputs

None	0
1 relay 1 x (NO-0)	1
2 relay 2 x (NO-0)	2
Pulse Voltage to drive SSR, 24 V DC / 20 mA	3
Pulse Voltage to drive SSR, 24 V DC / 20 mA + 1 relay (NO-0)	4

Analog Outputs

None	0
------------	---

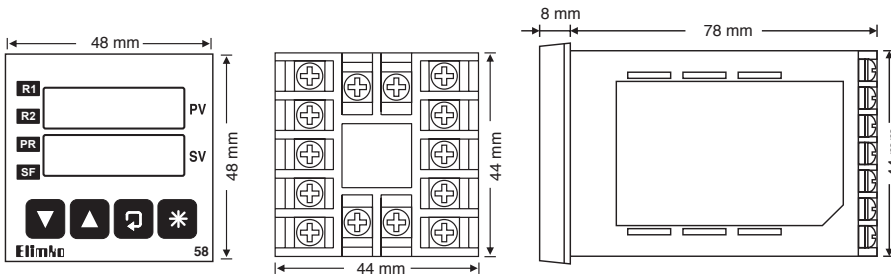
Communication

None	0
------------	---

Power Supply

220 V AC \pm %10	0
24 V AC \pm %10	1

DIMENSIONS



Panel cut-out = 45 x 45 mm



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



[in](#) /elimkoldsti
[f](#) /elimkoldsti
[v](#) /elimkoldsti