

- General purpose
- Low cost
- Easy adjustable set point
- Input type: Thermocouple or Pt-100
- CJC
- On-Off control
- LED indication for power and output
- Deviation LED bar
- 96x96 panel size
- IP 61 Protection class

Manufacturer / Technical Support: Elimko Co. Ltd.
 8. cadde 21. Sokak No:16 06510 Emek - ANKARA / TURKEY
 Phone:+ 90 312 212 64 50 Fax:+ 90 312 212 41 43
 www.elimko.com.tr e-mail:elimko@elimko.com.tr

1. DESCRIPTION

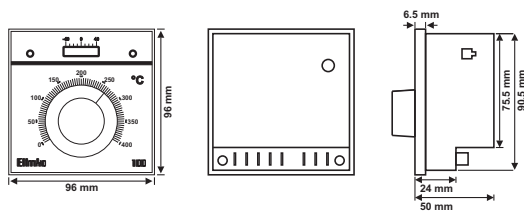
Type	Control Form	Display	Band
E-111	On-Off	None	0.5% of full scale
E-111-LG	On-Off	Yes (LED bar)	0.5% of full scale
E-161	Time Proportional	None	Xp=2%, Xt=20s
E-161-LG	Time Proportional	Yes (LED bar)	Xp=2%, Xt=20s

* Scales of deviation indicator is 10% of full scale.

2. TECHNICAL SPECIFICATIONS

Accuracy Class	1
Sensitivity	±0.5% (full scale)
Scale Width	240 mm circular
Operating Temperature	0-50°C
CJC	0-40°C
Operating Voltage	220 V AC, 50 Hz ±10%
Power Consumption	Max. 3 W
Relay Output	5 A, 250 V
Input	Thermocouple, RTD Other: Transducer and converter with standard output or special output
On-Off Band	±0.5 (full scale)
Protection Class	Front Panel : IP 61 (NEMA 4X) Rear Panel : IP 20
Weight	250 g

3. DIMENSIONS and PANEL MOUNTING



- Cut a hole in the panel. (See the figure for overall dimensions.)
- Slide the controller into the cutout from the front of the panel.
- Fit the mounting clamps to the controller, ensuring the lugs are located in their slots.
- Fasten the mounting clamps using the retaining screws.

- E-100 controller should be installed inside a suitable grounded metal enclosure (panel). This must prevent the live parts being accessible to human hands and metal tools.
- E-100 controller does not include a power switch. Therefore, the power supply to the controller and power outputs must be wired through the proper fuse or circuit breaker.
- To minimize the pick-up of electrical noise, the wiring of low voltage lines, particularly the sensor input should be routed away from the high-current power cables. Where it is not possible, use shielded cables with the shield grounded at both ends.
- The cables used for powering the controller and the power outputs must conform to the standards IEC 60245 and IEC 60227.

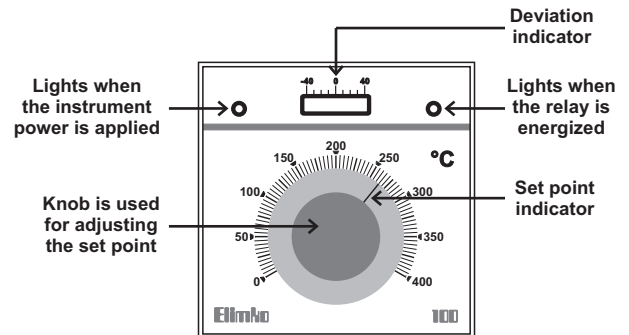
E-100 controller is designed for panel mounting and should be used in an industrial environment.

- The package of E-100 controller contains;
 - Controller
 - 2 pieces of mounting clamps
 - 1 packet fast-on terminal
 - User manual
 - Guarantee certificate
- After opening the package, please check the contents with the above list. If the delivered product is wrong type, any item is missing or there are visible defects, contact the vendor from which you purchased the product.
- Before installing and operating the controller, please read the user manual thoroughly.
- The installation and configuration of the controller must only be performed by a person qualified in instrumentation.
- Keep the unit away from flammable gases, that could cause explosions.
- Do not use alcohol or other solvents to clean the controller. Use a clean cloth soaked in water tightly squeezed to gently wipe the outer surface of the controller.
- The product life of this instrument is 10 years.



- 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.

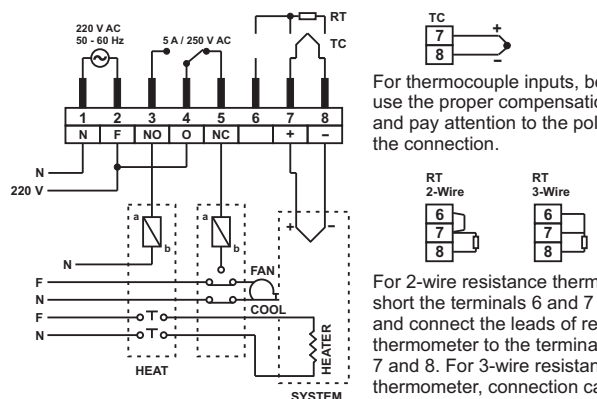
4. OPERATION



The Connection diagram are defined in 5. section. 220 V AC is applied on 1 and 2 terminals. Pls. contact us on order if you use 110 V AC. Relay connections are made terminals 3 (NO), 4(O) and 5(NC). When the power is applied to the instrument the green led on the upper left side of the panel becomes on. Set point adjustment with knob in the middle of the instrument. The red led on the upper right side of the panel is on when the process value is lower than set point.

5. CONNECTION DIAGRAM

The connection diagram is given on the label attached to the back panel. The type and the serial number of the instrument is shown on the top label. number at the top of the instrument.



For thermocouple inputs, be sure to use the proper compensation cables and pay attention to the polarity of the connection.

For 2-wire resistance thermometer, short the terminals 6 and 7 and connect the leads of resistance thermometer to the terminals 7 and 8. For 3-wire resistance thermometer, connection cables must be the same type and have the same cross-section area.



The terminals 01 to 05 are electrically live. While the instrument is powered, never touch to these terminals.