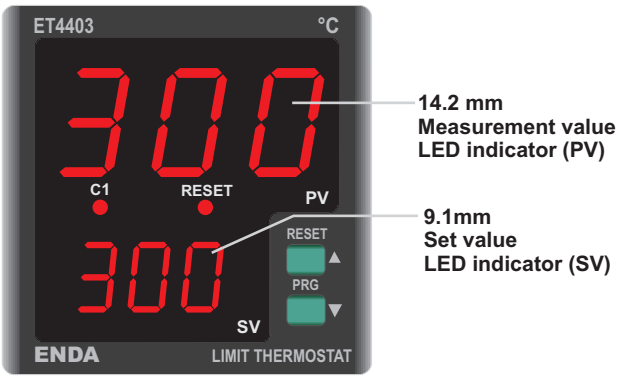
Read this document carefully before using this device. The guarantee will be expired by device demages if you don't attend to the directions in user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

ENDA ET4403 RESET INPUT LIMIT THERMOSTAT

Thank you for choosing **ENDA ET4403** Limit thermostat.

- 48 x 48mm sized.
- 14.2 mm LED Display.
- PT100 input.
- Limit or ON/OFF control selection.
- PV and SV indicators can be set to ON or OFF state.
- C1 Limit output contacts.
- Zero point input shift.
- External Reset input.
- Reset Key.
- In case of probe failure, C1 output is OFF.
- CE marked according to European Norms.



Order Code : ET4403 - ☐☐☐ - ☐☐☐
1 2

1 - Supply Voltage
230.....230V AC
110..... 110V AC
024.....24V AC
SM.....9-30V DC
7-24V AC

2 - Output Selection
SSR.....SSR
Blank.....Relay

CE

RoHS Compliant

TECHNICAL SPECIFICATIONS

Input Type	Temperature Range	Accuracy
	°C	
PT100 resistance thermometer EN 60751	0....700°C	± 1% (of full scale) ± 1 digit

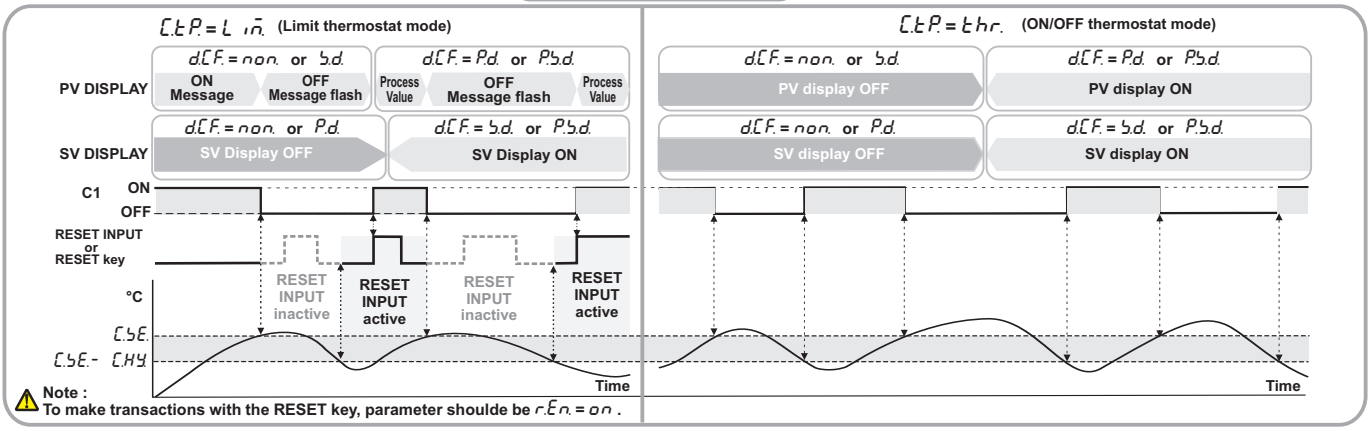
ENVIRONMENTAL CONDITIONS	
Ambient/storage temperature	0 ... +50°C/-25... +70°C (with no icing)
Max. Relative humidity	Relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.
Rated pollution degree	According to EN 60529 Front panel : IP65, Rear panel : IP20
Height	Max. 2000m

KEEP AWAY device from exposed to corrosive, volatile and flammable gases or liquids and DO NOT USE the device in similar hazardous locations.

ELECTRICAL CHARACTERISTICS	
Supply	230V AC / 110V AC +%10 -%15, 50/60Hz or 24V AC ± %10, 50/60Hz, or 9-30V DC / 7-24V AC SMPS
Power consumption	Max. 5VA
Wiring	Power connector: 2.5mm²' screw-terminal, Signal connector: 1,5mm² screw-terminal conenction.
Line resistance	Max. 100ohm
Data retention	EEPROM (minimum 10 years)
EMC	EN 61326-1: 2013 (Performance criterion B is satisfied for EN 61000-4-3)
Safety requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)
LOGIC INPUT	
Reset input	Contact input can be used to set C1 output to initial position (Minimum pulse duration must be 260msec.).
OUTPUTS	
C1 output	Relay : 250V AC, 5A (for resistive load), NO.
Life expectancy for relay	5.000.000 Switching for no-load operation; 200.000 switching for 5A resistive load at 250VAC.
SSR output	Logic control output, 12V 20mA Max.
CONTROL	
Control type	Single setpoint value control
Control algorithm	On-Off
A/D converter	12 bit
Sampling time	100ms
Hysteresis	Adjustable between 1°C and 50°C
HOUSING	
Housing type	Suitable for flush-panel mounting according to DIN 43 700.
Dimensions	W48xH48xD53mm
Weight	Approx. 230g (after packing)
Enclosure material	Self extinguishing plastics.

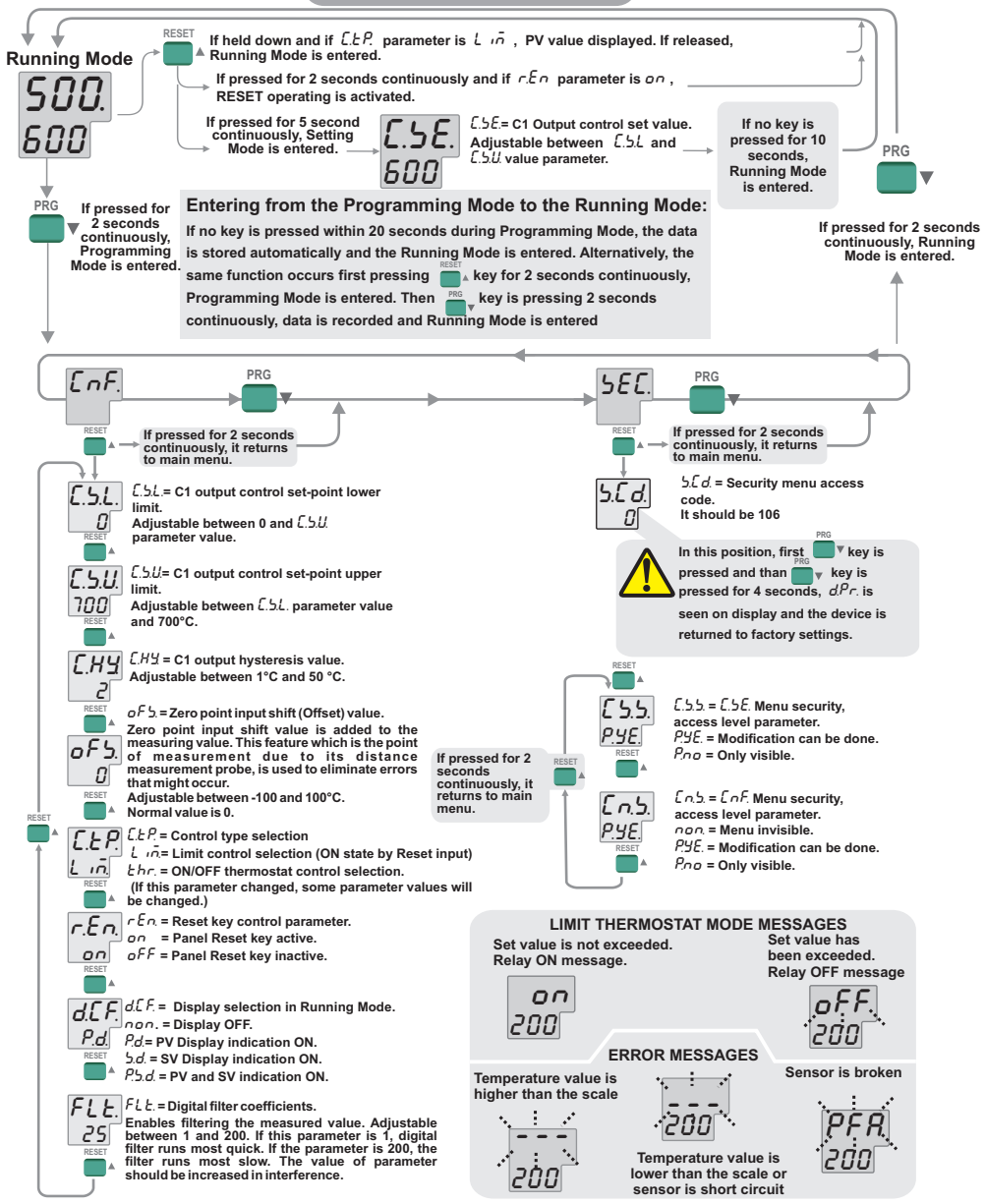
Avoid any liquid contact while the device is switched on.
DO NOT clean the device with solvent (thinner, gasoline, acid etc.) and / or abrasive cleaning agents.

C1 OUTPUT DIAGRAM



Note :
To make transactions with the RESET key, parameter shoulde be r.En.=on .

PROGRAMMING DIAGRAM



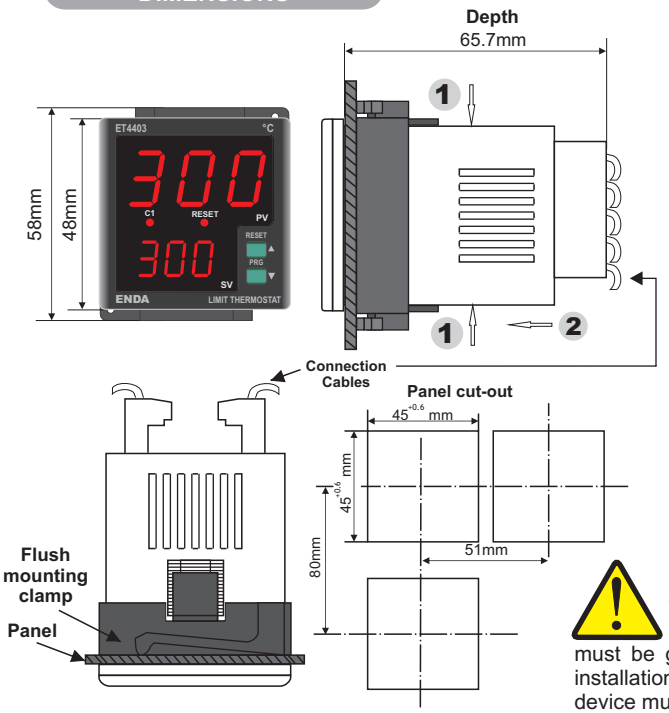
Parameter Setting Diagram

If wait for 3 seconds without pressing any key, returns to the parameter display.

While C.HY parameter seen, if PRG button is pressed and released, the selected parameter value flashes and pass to parameter setting status. In this case, parameter is set to the desired value with RESET & PRG keys.

If RESET key is pressed and held 0.6 seconds, the value of the selected parameter increases rapidly. If waited enough,the value increases a hundred at each step. After 1 second, following the release of the key, initial increasing condition is returned. Same procedure is valid for the decrementing.

DIMENSIONS



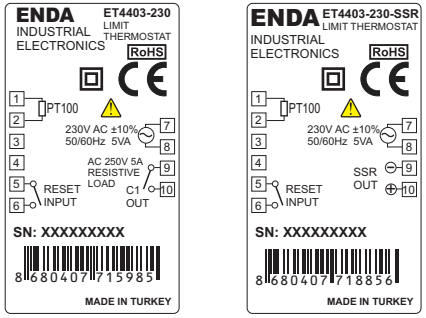
For removing mounting clamps ;
- Push the device in direction 1 as shown in the figure.
- And, pull out the device in direction 2 .

Note :
1) While performing panel mounting, additional space should be allocated for cables.
2) Panel thickness should be maximum **9mm**.
3) If there is no **100mm** free space at back side of the device, it would be difficult to remove it from the panel.

Equipment is protected throughout by DOUBLE INSULATION

Holding screw 0.4-0.5Nm.

CONNECTION DIAGRAM

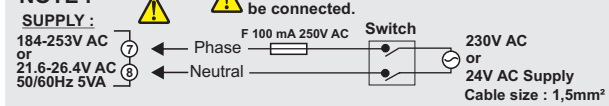


ENDA ET4403 is intended for installation within control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of electrical power. The device must be protected against inadmissible humidity, vibrations, severe soiling. Make sure that the operation temperature is not exceeded. All input and output lines that are not connected to the supply network must be laid out as shielded and twisted cables. These cables should not be close to the power cables or components. The installation and electrical connections must be carried out by a qualified staff and must be according to the relevant locally applicable regulations.

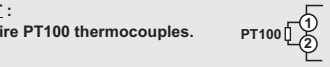
Note : **1)** Mains supply cords shall meet the requirements of **IEC 60227** or **IEC 60245**.
2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.

NOTE :

SUPPLY :
184-253V AC or 21.6-26.4V AC 50/60Hz 5VA



SENSOR INPUT :
Please use 2-Wire PT100 thermocouples.



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Blank.....Relay

sisel
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Şerifali Mah. Barbaros Cad. No:18 Y.Dudullu 34775
ÜMRANİYE / İSTANBUL - TÜRKİYE
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ENDA

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