



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

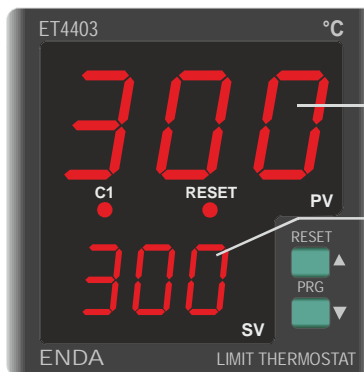
ENDA ET4403 RESET INPUT LIMIT THERMOSTAT

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.

Order Code : ET4403 -

1 - Supply Voltage
230.....230V AC
024.....024V AC/DC



14.2 mm
Measurement value
LED indicator (PV)

9.1mm
Set value
LED indicator (SV)

TECHNICAL SPECIFICATIONS

Input Type	Temperature Range	Accuracy
PT100 resistance thermometer EN 60751	°C 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

! Do not use the device in locations subject to corrosive and flammable gases.

ELECTRICAL CHARACTERISTICS

Supply	230V AC +%-10 -%-15, 50/60Hz or 24V AC %±10, 50/60Hz
Power consumption	Max. 5VA
Wiring	Power connector: 2.5mm ² screw-terminal, Signal connector: 1.5mm ² 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.).
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OUTPUTS

C1 output	Relay : 250V AC, 2A (for resistive load), NO.
Life expectancy for relay	5.000.000 Switching for no-load operation; 200.000 switching for 2A resistive load at 250VAC.
SSR output	Logic control output, 12V 20mA Max.

CONTROL

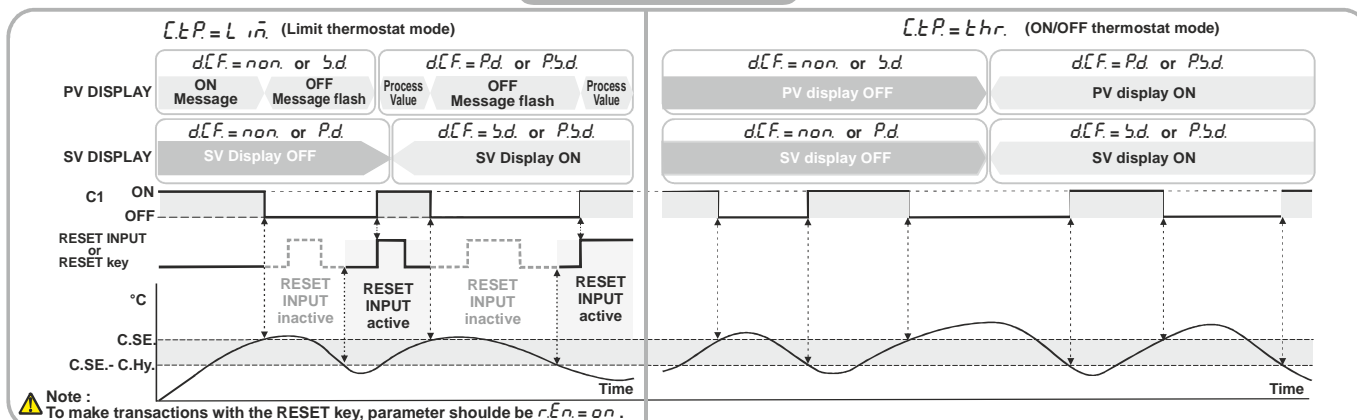
Control type	Single setpoint value control
Control algorithm	On-Off
A/D converter	12 bit
Sampling time	100ms
Hysteresis	Adjustable between 1°C and 50°C

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.

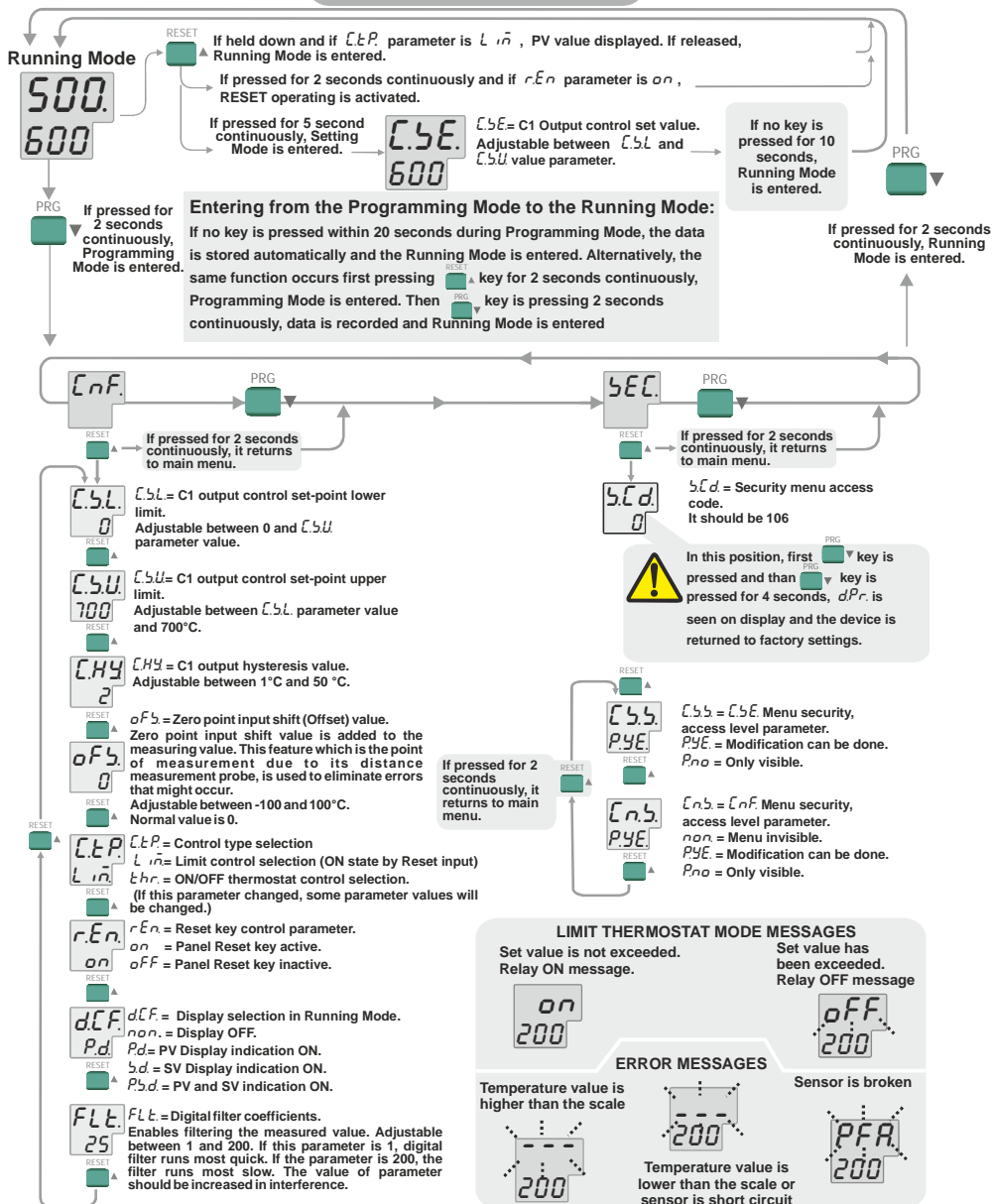
! While cleaning the device, solvents (thinner, gasoline, acid etc.) or corrosive materials must not be used.

C1 OUTPUT DIAGRAM



up to date: 06052019, modification reserved and can be change any time previous notice !

PROGRAMMING DIAGRAM



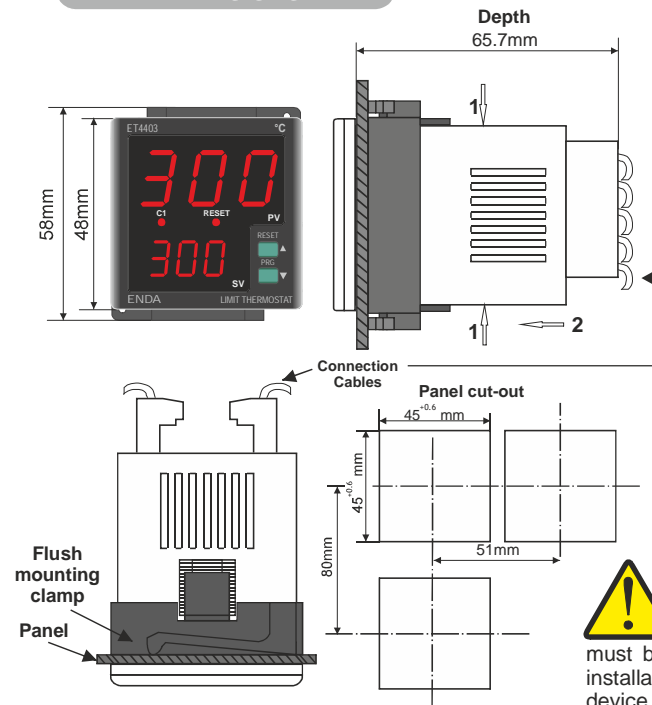
Parameter Setting Diagram



While **CHY** 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 **PRG** & **PRG** keys.

If **PRG** 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.
 - Then 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**

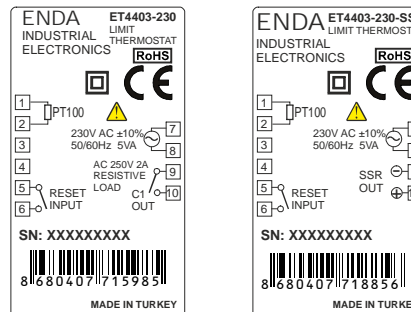
Holding screw 0.4-0.5Nm.



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.

CONNECTION DIAGRAM

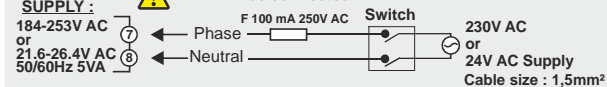
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NOTE :

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

Fuse should be connected.
 F 100 mA 250V AC



SENSOR INPUT :

Please use 2-Wire PT100 thermocouples.



Order Code

ET4403 - **1**

1 - Supply Voltage
 230.....230V AC
 024.....24V AC/DC

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