Please read this document carefully before using this product. The guarantee will be invalidated if the device is damaged by not following instructions detailed in the manual. The company shall not be responsible for any damage or losses however caused, which may be experienced as a result of the installation or use of this product.

ENDA EI1410 NTC TEMPERATURE INDICATOR

Thank you for choosing ENDA EI1410 NTC temperature indicator.

*** 77 x 35mm sized.**
*** 4 digits display.**
*** Easy to use with front panel keypad.**
*** Display can be selected decimal or integer.**
*** Temperature unit can be selected as °C or °F.**
*** Stores maximum and minimum measurement values.**
*** Upper and lower alarm limit values can be adjusted.**
*** CE marked according to European Norms.**

Order Code : EI1410-NTC-□□□□□□
1

Supply Voltage
230VAC...230V AC
24.....24V AC/DC
12.....12V AC/DC

CE **RoHS Compliant**

TECHNICAL SPECIFICATIONS

ENVIRONMENTAL CONDITIONS	
Ambient/storage temperature	0 ...+50°C / -25 ...+70°C
Max. relative humidity	80% Relative humidity for temperatures up to 31°C, decreasing linearly to 50% 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 -%20, 50/60Hz or 24V AC/DC ±%10, 50/60Hz or 12V AC/DC ±%10, 50/60Hz	
Power consumption	Max. 4 VA	
Wiring	2.5mm² screw-terminal connections	
Scale	Decimal Integer	-60.0°C...150.0°C -60°C...150°C
Sensitivity	0.1°C	
Accuracy	±1°C	
EMC	EN 61326-1: 2006	
Safety requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)	

HOUSING	
Housing type	Suitable for flush-panel mounting.
Dimensions	W77xH35xD71mm
Weight	EI1410-230VAC Approx. 190g (after packing) EI1410-24 and EI1410-12 Approx. 110g (after packing)
Enclosure material	Self extinguishing plastics.
⚠ While cleaning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.	

SİSEL MÜHENDİSLİK ELEKTRONİK SAN. VE TİC. A.Ş.
Şerifali Mah. Barbaros Cad. No:18 Y.Dudullu 34775 - ÜMRANİYE/İSTANBUL/TÜRKİYE
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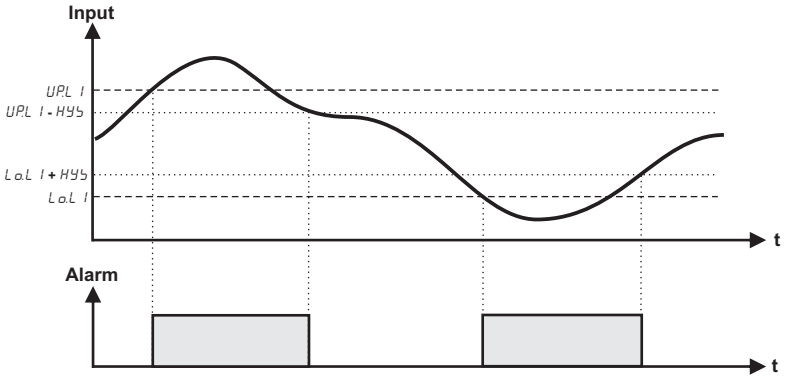
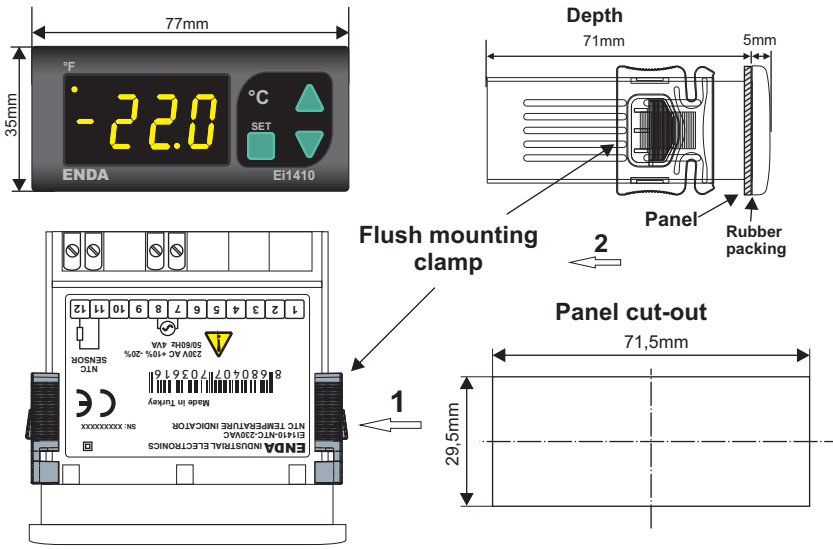


When an alarm condition occurs, measured temperature value flashes on the display.

DIMENSIONS



For removing mounting clamps:
- Push the flush-mounting clamp in direction **1** as shown in the figure left.
- Then, pull out the clamp in direction **2**.

Note : 1) Panel thickness should be maximum 7 mm.

2) There must be at least 60mm free space behind the device,otherwise it would be difficult to remove it from the panel.

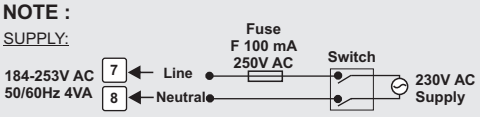
Equipment is protected througout by DOUBLE INSULATION.

RoHS Compliant

Holding screw 0.4-0.5Nm

NOTE :

SUPPLY:

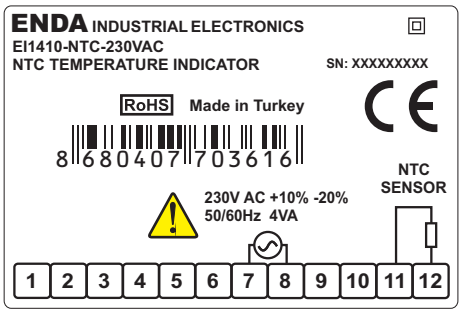


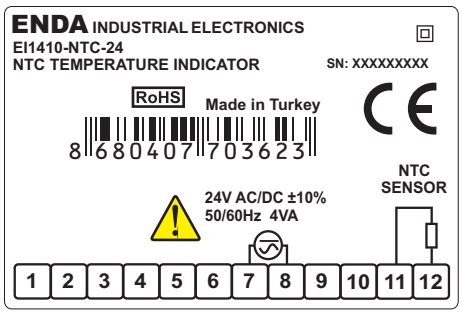
Fuse should be connected. **Cable size: 1,5mm²**

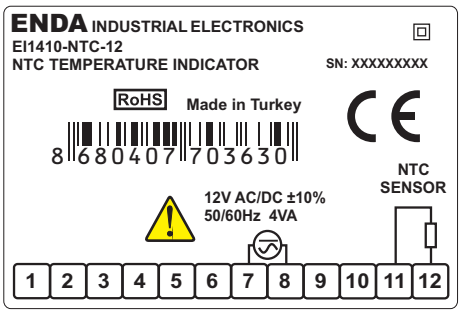
1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.
2) In accordance with the safety regulations, the power supply switch shall bring the identification of the relevant instrument and it should be easily accessible by the operator.

CONNECTION DIAGRAM

ENDA EI1410 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The electrical connections must be carried on by a qualified staff and must be according to the relevant locally applicable regulations. 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 and severe soiling. Make sure that the operation temperature is not exceeded. The cables should not be close to the power cables or components.







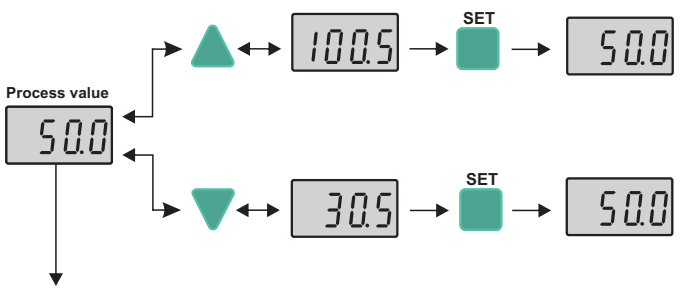
EI1410 PROGRAMMING DIAGRAM

Increment Key — Used for increasing the setpoint value and changing parameters.
When held down for a few seconds, configured numeric value increases faster..

Decrement Key — When held down for a few seconds, configured numeric value increases faster.
Used for decreasing the setpoint value and changing parameters.

Programming Key — SET — Used for displaying and configuring the selected parameter value.

RUN MODE

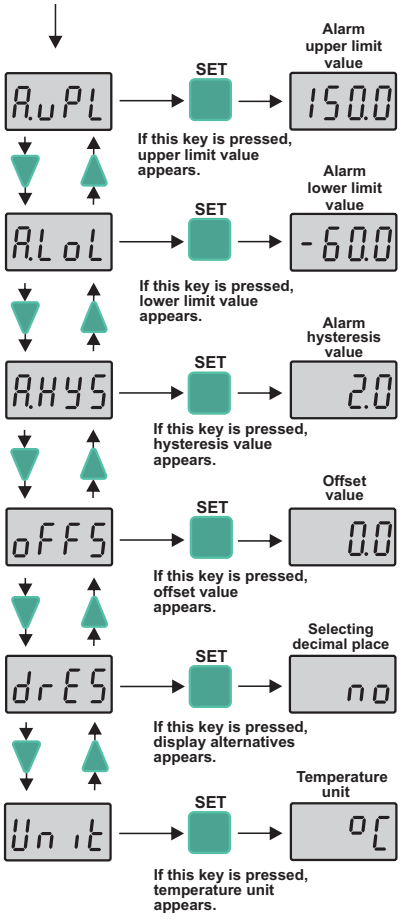


In run mode, ▲ key is held down, the highest measured temperature is displayed.
Pressing this key while holding down the SET or the first power up of the device,
measured at the highest temperature value set to the value of the current temperature.

In run mode, ▼ key is held down, the highest measured temperature is displayed.
Pressing this key while holding down the SET or the first power up of the device,
measured at the lowest temperature value set to the value of the current temperature.

If both ▲ & ▼ keys are pressed and held for 3 seconds, programming mode is entered or run mode is returned.

PROGRAMMING MODE



if the measurement temperature is above AuPL value, the indicator flashes a warning.

Alarm upper limit value. If the process value exceeds AuPL value, display flashes.
By using ▼ and ▲ keys, while holding SET key, the upper limit can be adjusted to desired value between ALoL and 150.0°C.

Alarm lower limit value. If the process value falls below ALoL value, display flashes.
By using ▼ and ▲ keys, while holding SET key, the lower limit can be adjusted to desired value between -60.0°C and AuPL.

Alarm hysteresis value.
By using ▼ and ▲ keys, while holding SET key, hysteresis value can be adjusted to desired value between 0.0°C and 15.0°C. Maximum value of this parameter must be (AuPL - ALoL) / 2.

Offset value.
By using ▼ and ▲ keys, while holding SET key, offset can be adjusted to desired value between -20.0°C ile 20.0°C.

Selecting decimal place.Display can be selectable decimal or integer.
By using ▼ and ▲ keys, while holding SET key, display can be selected decimal or integer.
When YES is selected, decimal case is entered. If no is selected, integer case is entered.
All of other parameters are adjusted according to selection.

Temperature unit.
By using ▼ and ▲ keys, while holding SET key, temperature unit can be selected °C or °F.

If without pressing any button for 20 seconds or powered down and powered up the device, then it returns to operation mode.

ERROR MESSAGES

PSC	Means, indicator probe is short circuit.	- - - -	Means, process value is higher than the scale.
PFA	Means, indicator probe is broken.	_ _ _ _	Means, process value is lower than the scale.