



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 ET1413 NTC FAN CONTROL THERMOSTAT

Thank you for choosing ENDA ET1413 NTC Fan Control Thermostat.

- ▶ 35 x 77mm sized
- ▶ 4 digits display
- ▶ Decimal point indication
- ▶ Three contact outputs for Fan and Climate control.
- ▶ Fan and Climate control performed manually by using front panel keys
- ▶ CE marked according to the European Norms



Order Code : ET1413-NTC -

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1 - Supply Voltage
230.....230V AC
2424V AC/DC
1212V AC/DC



TECHNICAL SPECIFICATIONS

ENVIRONMENTAL CONDITIONS

Ambient/storage temperature	0 ... +50°C/-25 ... 70°C (without icing)
Max. relative humidity	Relative humidity 80% for temperatures up to 31°C decreasing linearly to 50% relative humidity at 40°C.
Pollution degree	According to EN60529; Front panel : IP65 Rear Panel : IP20
Height	Max. 2000m



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

ELECTRICAL CHARACTERISTICS

Supply Voltage	230V AC +%10 -%20, 50/60Hz or 24V AC/DC ±%10, 50/60Hz or 12V AC/DC ±%10, 50/60Hz
Power Consumption	Max. 4.5VA
Connection	2.5mm ² screw-terminal connections.
Scale	-50.0°C ... +110.0°C
Sensitivity / Accuracy	0.1°C / ±1°C
Display	4 digits, 12.5mm, 7 segment yellow LED
EMC	EN 61326-1: 2013 (Provides performance criterion B for EMC experiments. The device is intended for use in controlled electromagnetic environments.)
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)

OUTPUTS

Fan1	NO+NC 250V AC, 8A (for resistive load), 1/2hp, 0.37kW 240V AC CosF = 0.4 (for inductive load)
Fan2	NO 250V AC, 8A (for resistive load), 1/2hp, 0.37kW 240V AC CosF = 0.4 (for inductive load)
Climate (A/C)	NO 250V AC, 8A (for resistive load), 1/2hp, 0.37kW 240V AC CosF = 0.4 (for inductive load)
Life Expectancy for Relay	30.000.000 Switching for no-load operation; 300.000 switching for 8A resistive load at 250VAC.

CONTROL

Control Type	Single set-point control
Control Algorithm	On-Off control
Hysteresis	0.5°C.

HOUSING

Housing Type	Suitable for flush -panel mounting
Dimensions	W77xH35xD71mm
Weight	Approx. 223g (After packing)
Enclosure Material	Self extinguishing plastics.



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



SİSEL MÜHENDİSLİK ELEKTRONİK SAN. VE TİC. A.Ş.
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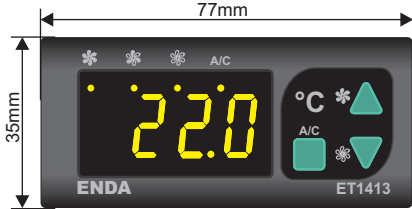
Fan2 LED
Fan1 LED



Climate (A/C) LEDs. Illuminates if the climate (Air Condition) activated.

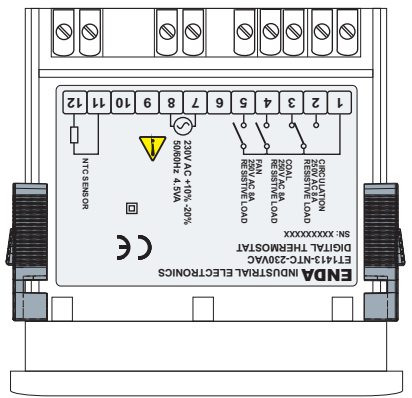
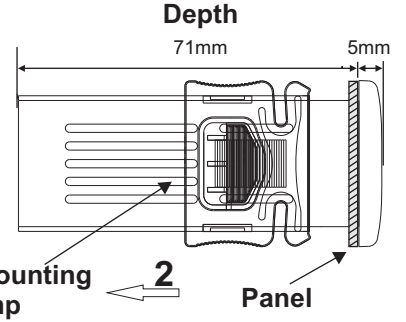
- Increment Key** ▲ Each time this key is pressed, Fan1 and Fan2 are activated respectively. If no fan is active, Fan1 is activated first. If pressed again, Fan1 will remain active and Fan2 will switch on. And the related output LEDs are ON.
- Decrement Key** ▼ Each time this key is pressed, Fan2 and Fan1 are deactivated respectively. During all FANs are in inactive mode, air conditioner (climate) is also deactivated. And the related output LEDs are OFF.
- A/C Key** ■ If A/C key is pressed, air conditioner (climate) controller relay activated or inactivated and related LED ON or OFF.

DIMENSIONS



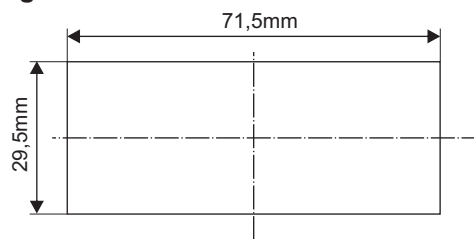
For removing mounting clamps:

- Push the flush-mounting clamp in direction 1 as shown in the figure below. Then, pull out the clamp in direction 2.



Flush mounting clamp

Panel Cut-out



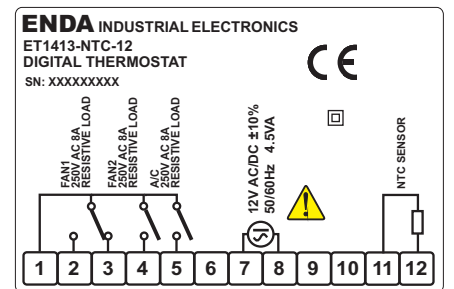
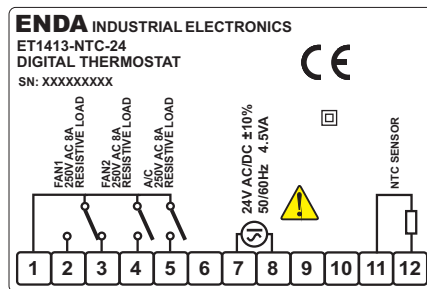
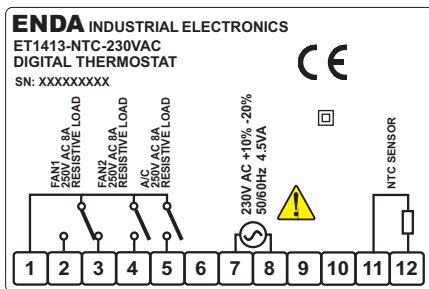
Note:

- 1) Panel thickness should be maximum 7mm.
- 2) If there is no 60mm free space at the back side of the device, it would be difficult to remove it from the panel.

CONNECTION DIAGRAM



ENDA ET1413 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The electrical connections must be carried out 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, severe soiling and make sure that the operation temperature is not exceeded. The cables should not be close to the power cables or components.



Equipment is protected throughout by **DOUBLE INSULATION**

Holding screw 0.4-0.5Nm.

NOTE:

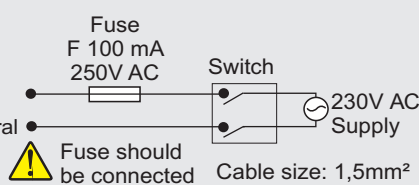
SUPPLY:

184-253V AC
50/60Hz 4VA



Line

Neutral



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.