english



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 ET1411 DIGITAL THERMOSTAT

Thank you for choosing ENDA ET1411 temperature controller.

- * 35 x 77mm sized.
- * On-Off control.
- * Single contact output for selectable heating or cooling control.
- * Single NTC probe input.
- * Offset value can be entered for NTC probe.
- * In the case of probe failure, output state can be selected on, off or periodical running.
- * Upper and lower limits of the setpoint can be adjusted.
- * Temperature unit can be selected °C or °F.
- * CE marked according to European Norms.



CE R⊗HS Compliant

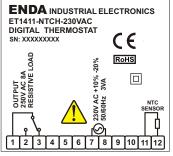
Order Code: ET1411-NTCH-

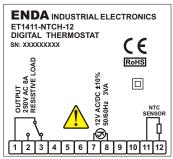
1- Supply Voltage 230VAC......230V AC 24.....24V AC/DC 12.....12V AC/DC

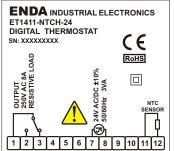
Connection Diagram



ENDA ET1411 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.

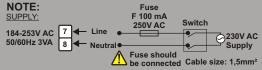












Note:

- 1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.
- 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.

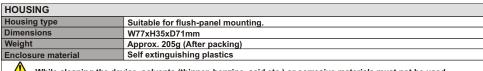
Technical Specifications

ENVIRONMENTAL CONDITIONS					
Ambient/storage temperature	0 +50°C/-25 70°C (with no icing)				
Max. relative humidity	80%, up to 31°C decreasing linearly 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 corrective and flammable gasses					

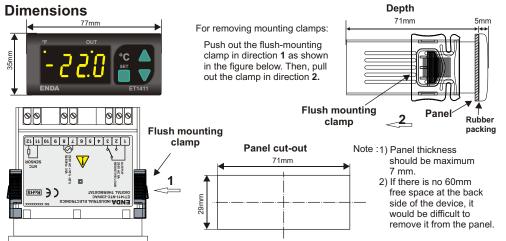
ELECTRICAL CHARACTERISTICS					
Supply voltage	230V AC +10% -20%, 50/60Hz or 12/24V AC/DC ±10%, 50/60Hz.				
Power consumption	Max. 3VA				
Wiring	2.5mm² screw-terminal connections.				
Scale	-60.0 +150.0°C (-76.0 +302.0°F)				
Sensitivity/Accuracy	0.1°C / ±1°C				
Time Accuracy	(±1%-1sec)				
Indicator	4 digits, 12.5mm, 7 segment yellow LED				
EMC	EN 61326-1: 1997, A1: 1998, A2: 2001 (Performance criterion B is satisfied for EMC tests.				
	The device is designed to operate in controlled electromagnetic environment)				
Safety requirements	EN 61010-1: 2001 (Pollution degree 2, overvoltage category II)				

ОИТРИТ			
OUTPUT Relay: 250V AC, 8A (for resistive load), NO+NC;			
	1/2 HP 240V AC Cos = 0.4 (for inductive load)		
Life expectancy for relay	Mechanical 30.000.000; Electrical 100.000 operation.		

CONTROL		
Control type	Single-setpoint control	
Control algorithm	On-Off control	
Hysteresis	Adjustable between 0.1 20.0°C.	







SURAN Industrieelektronik

Dettinger Str. 9 D-72160 Horb a.N.

reserved and can be change

date: 03072010, modification

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Internet: www.suran-elektronik.de 1./2 ET1411-E



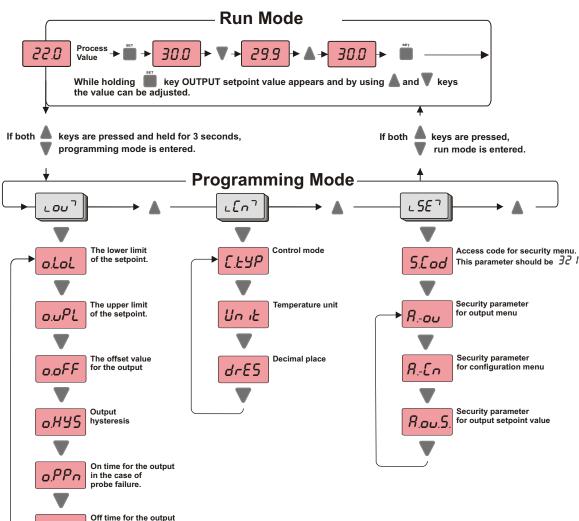
in the case of probe failure.

Displayed process value in the run mode, parameter name or value in programming mode.

Used for selecting menu and increasing setpoint value of the parameters in the programming mode and for increasing the setpoint value in the run mode. When held down for a few seconds, the change rate accelerates.

Used for selecting parameters and decreasing the setpoint value in the programming mode and for decreasing the setpoint value in the run mode. When held down for a few seconds, the change rate accelerates.

Used for adjusting the value of the setpoint in the run mode and for adjusting the selected parameter in the programming mode. While holding key, setpoint value of the selected parameter appears and by using and keys the value can be adjusted.



	PARAMETER TABLE										
١٥٥٦	Menu of Output control parameters			MAX	UNIT	DEF. SET					
o.LoL	The lower limit of the setpoint.			o.uPL	ů	-60					
o.uPL	The upper limit of the setpoint.			150.0	°C	150					
o.oFF	The offset value for the output			20.0	°C	0					
o.XYS	Output hysteresis			20.0	°C	2					
o.PPn	On time for the output in the case of probe failure.			255	Min.	0					
o.PPF	Off time for the output in the case of probe failure.			255	Min.	1					
۲٤٠٦	Menu of Configuration										
C.EYP	Control mode (HERL = Heating cotrol LooL = Cooling control)		HERE	CooL		HERE					
Un it	Temperature unit			°F		°C					
drE5	Decimal place (no = no decimal point, 22 °C 9E5 = with decimal point, 22.3 °C)		no	<i>YE</i> 5		no					
LSE	Menu of Parameter security										
Rou	Security parameter for menu of output control	nonE = Menu is invisible. P.YE5 = Parameters of menu are changeable.									
AEn	Security parameter for menu of configuration	neter for			rs of menu are changeable. rs of menu are only visible.						
R.ou.S.	Security parameter for output setpoint value	P.YE5 = Setpoint value is changeable. P.no = Setpoint value is only visible.									

