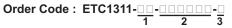


Please read this document carefully before using this product. The guarantee will be invalidated if the device is damaged by not following instructions detailed in the manual. The company shall not be responsible for any damage or losses however caused, which may be experienced as a result of the installation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

ENDA ETC1311 DIGITAL THERMOSTAT

Thank you for choosing ENDA ETC1311 temperature controller.

- * 35 x 77mm sized.
- * On-Off control.
- * J. K. Pt100 or Pt1000 input.
- * Temperature compensation.
- * In the case of probe failure, heating can be selected on, off or periodical running.
- * Upper and lower limits of the setpoint can be adjusted.
- * Set value can be adjusted by using single key.
- * CE marked according to European Norms.



1 - Input FE.....Fe-Const (J) RT.....Pt100

PT.....Pt1000 K.....NiCr-Ni (K) 2 - Supply Voltage 230VAC...230V AC

24VAC.....24V AC 12VAC.....12V AC

SM.....9-30V DC / 7-24V AC

 $C \in$

R₈HS Compliant



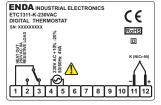
3 - Output

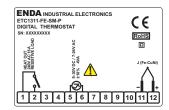
P..... Relay-16A None...Relay-8A SSR....Logic output

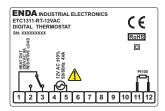
Connection Diagram



ENDA ETC1311 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.

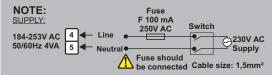






Equipment is protected throughout by DOUBLE INSULATION.





- 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.

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			
A				

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 ±10%, 50/60Hz or 12V AC ±10%, 50/60Hz or optional 9-30V DC / 7-24V AC ±10% SMPS module.			
Power consumption	Max. 4VA			
Wiring	2.5mm² screw-terminal connections.			
Scale	0 +600°C for Fe-Const (J) and NiCr-Ni (K)100 +600°C for Pt100 and Pt1000			
Accuracy	± 0.5% (of full scale) ±1 digit			
Indicator	3 digits, 14.2mm, 7 segment red 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)			

OUTPUT	
HEAT OUT	For ETC1311-XX-XX ; Relay: 250VAC, 8A(for resistive load), NO+NC, For ETC1311-XX-XX-P; Relay: 240VAC, 16A(for resistive load), NO or 12VDC 20mA logic out.
Life expectancy for relay	For ETC1311-XX-XX ; Mechanical 30.000.000; Electrical 100.000 operation. For ETC1311-XX-XX-P; Mechanical 30.000.000; Electrical 30.000 operation.

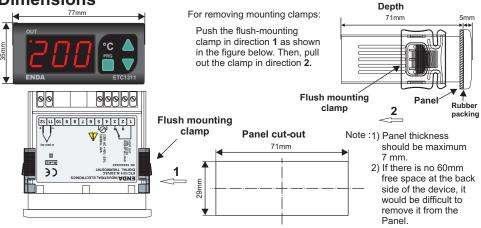
CONTROL	
Control type	Single-setpoint control
Control algorithm	On-Off control
Hysteresis	Adjustable between 1 20°C.

HOUSING	
Housing type	Suitable for flush-panel mounting.
Dimensions	W77xH35xD71mm
Weight	Approx. 198g (After packing)
Enclosure material	Self extinguishing plastics
A	



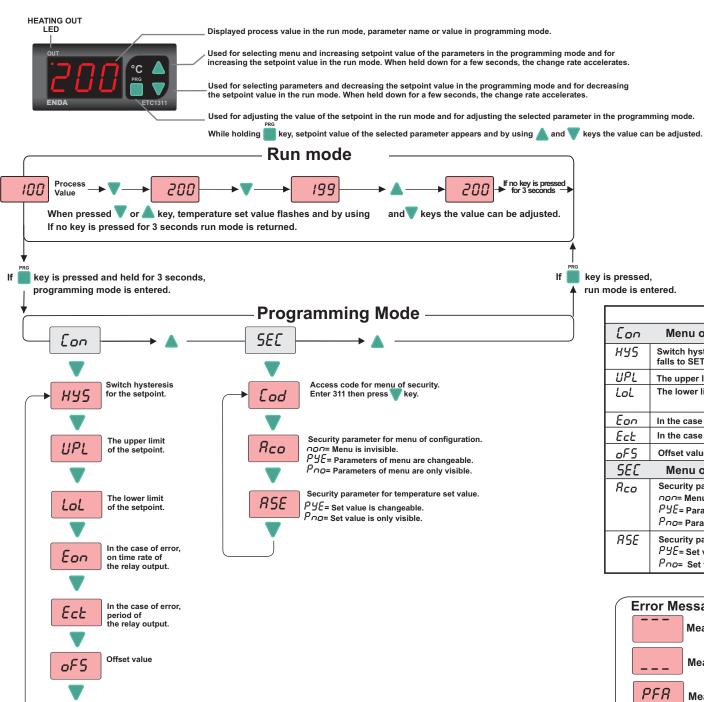
While cleaning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.

Dimensions

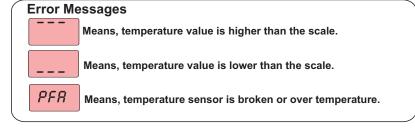


SİSEL MÜHENDİSLİK ELEKTRONİK SAN. VE TİC. A.Ş. Yukarı Dudullu Barbaros Cad. Kutup Sok. No:20 34775 - ÜMRANİYE/İSTANBUL/TÜRKİYE Tel: +90 216 499 46 64 Pbx. Fax: +90 216 365 74 01

url: www.enda.com.tr



PARAMETER TABLE									
Eon	Menu of Configuration parameters		MIN	MAX	UNIT	DEF.SET			
HYS	Switch hysteresis for the setpoint. (When temperature falls to SET-HYS, output relay becomes active.)		1	20	°C	1			
UPL	The upper limit of the setpoint.		LoL	600	°C	600			
LoL	The lower limit of the setpoint.	Fe-CuNi / NiCr-Ni	0	UPL	°C	0			
		Pt100	-99	UPL	°C	-99			
Eon	In the case of error, on time rate of the relay output.		0	100	% Ect	0			
Ect	In the case of error, period of the relay output.		10	250	sec	30			
oF5	Offset value.		-99	99	°C	0			
5EE Menu of Parameter security									
Ясо	Security parameter for menu of configuration. non= Menu is invisible. P 5E = Parameters of menu are changeable. P no= Parameters of menu are only visible.								
ASE	Security parameter for temperatur PソE= Set value is changeable. Pno= Set value is only visible.	e set value.							



2/2 ETC1311-E-10-R