

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. CAL Controls 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.

CE

CAL ETC1311 DIGITAL THERMOSTAT

Thank you for choosing the CAL ETC1311 thermostat.

- * 34 x 77mm sized.
- * On-Off control.
- * J type Thermocouple or Pt100 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.

Order Code : ETC1311-00-000-0

1 - Input

FE....J Type R.....Pt100

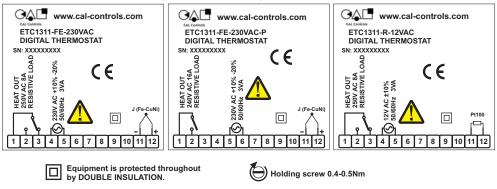
- 2 Supply Voltage 230VAC...230V AC 24VAC.....24V AC 12VAC.....12V AC
 - 3 Output SM.....9-30V DC SMPS

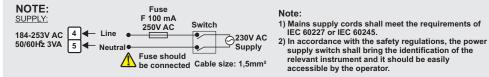
Connection Diagram



CAL 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 gualified 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.

IEC 60227 or IEC 60245.



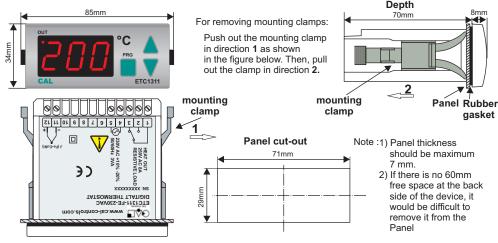


abuical Cussifications

ENVIRONMENTAL CON	IDITIONS				
Ambient/storage temperat					
Max. relative humidity	80%, up to 31°C decreasing linearly 50% at 40°C				
Rated pollution degree	According to EN 60529 Front panel : IP60 Rear panel : IP20				
Height	Max. 2000m				
Do not use the dev	ice in locations subject to corrosive and flammable gasses.				
ELECTRICAL CHARAC	TERISTICS				
Supply voltage	230V AC +%10 -%20, 50/60Hz or 12VAC or 24 AC ±%10, 50/60Hz or optional 9-30V DC ±%10 .				
Power consumption	Max. 3VA				
Wiring	2.5mm ² screw-terminal connections.				
Scale	+600°C for J Type100 +600°C for Pt100				
Accuracy	± 0.5% (of full scale) ±1 digit				
Indicator	3 digits, 14mm, 7 parts 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: 250V AC, 8A(for resistive load), NO+NC. For ETC1311-FE-XXP ; Relay: 240V AC, 16A(for resistive load), NO.				
Life expectancy for relay	For ETC1311-XX-XX ; Mechanical 30.000.000; Electrical 100.000 operation. For ETC1311-FE-XXP ; 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 panel mounting.				
Dimensions	W77xH34xD70mm				
Weight	Approx. 250g (after packing the device and a probe)				

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

Dimensions



CAL CONTROLS LTD Bury Mead Road, Hitchin, Herts, SG5 1RT, UK.

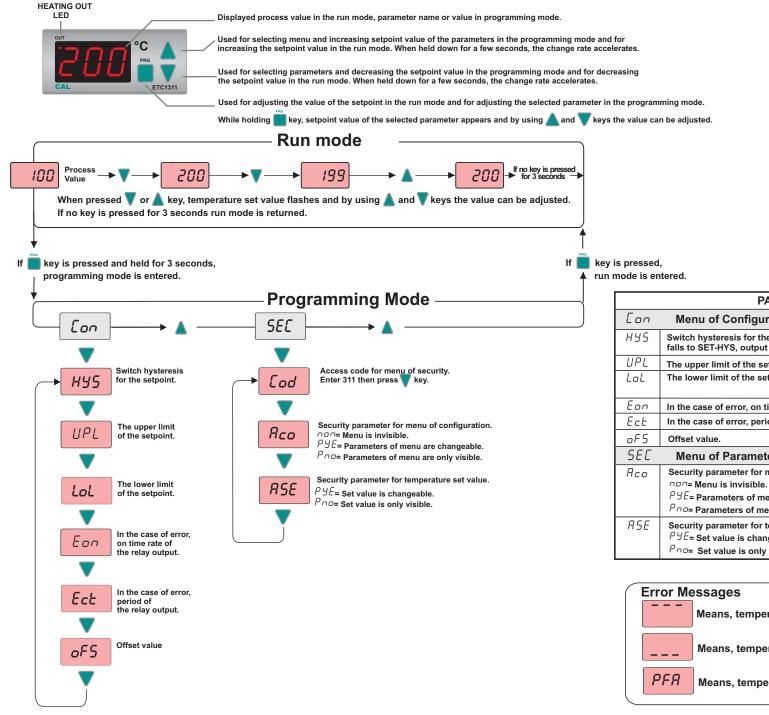
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ETC1311

P.....Relay-16A

None...Relay-8A



	PARAMETER TAR	BLE					
Con	Menu of Configuration parameters			MAX	UNIT	DEF.SET	
H¥5	Switch hysteresis for the setpoint. (When temperature falls to SET-HYS, output relay becomes active.)			20	°C	1	
UPL	The upper limit of the setpoint.			600	°C	600	
LoL	The lower limit of the setpoint.	Fe-CuNi	0	UPL	°C	0	
		Pt100	-99	UPL	°C	-99	
Eon	In the case of error, on time rate of the relay output.			100	% Ect	0	
Ect	In the case of error, period of the relay output.		10	250	sec	30	
oFS	Offset value.			99	°C	0	
SEC	Menu of Parameter security						
Aco	Security parameter for menu of configuration. ロロー= Menu is invisible. P リビ= Parameters of menu are changeable. P ロロ= Parameters of menu are only visible.						
ASE	Security parameter for temperature set value $P \ \exists E$ = Set value is changeable. $P \ \neg c$ = Set value is only visible.	ie.					

