

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.

# CAL ETM1411 DIGITAL TIMER

Thank you for choosing the CAL ETM1411 digital timer.

- \* 34 x 77mm sized.
- Single contact output for timing control. CE
- External start input. Display can be adjusted to show min. or sec.

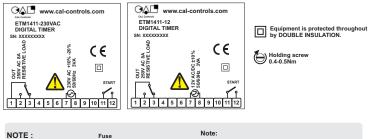
- Scale ; 0:01 .... 99:59 min. 0:01 .... 99:59 hour
- \* Decrease and increace step of time can be adjusted.
  \* Start and stop possibility by front panel.
  \* 16 different warning tones.
  \* Upper and lower limits of the setpoint can be adjusted.
  \* CE marked according to European Norms.

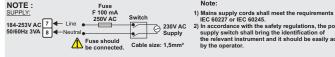
Output	Supply Voltage	Order Code
Relay	230V AC +%10 -%20	ETM1411-230VAC
	12V AC/DC ±%10	ETM1411-12
	24V AC/DC ±%10	ETM1411-24

## **Connection Diagram**



CAL ETM1411 is intended for installation in control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. 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. All input and output lines that are not connected to the supply network must be laid out as shielded and twisted cables. These cables should not be close to the power cables or components. The installation and electrical connections must be carried out by qualified staff and must be according to the relevant locally applicable regulations





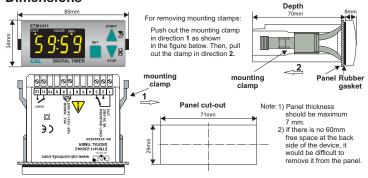
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## **TECHNICAL SPECIFICATIONS**

ENVIRONMENTAL COM		
Ambient/storage temperat	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 : IP60 Rear panel : Ip20	
Height	Max. 2000m	
Do not use the dev	vice in locations subject to corrosive and flammable gases.	
ELECTRICAL CHARAC	TERISTICS	
Supply	230V AC +%10 -%20, 50/60Hz or 24V AC/DC ±%10, 50/60Hz or 12V AC/DC ±%10, 50/60Hz.	
Power consumption	Max 3VA	
Wiring	2.5mm <sup>2</sup> screw-terminal connections	
Scale	Selectable 99:59 min. or hour.	
Sensitivity	1 sec.	
Time Accuracy	±%1	
Indicator	4 digits, 12mm, 7 parts 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)	
OUTPUT		
OUT	Relay: 250V AC, 8A (for resistive load), NO+NC	
Life expectancy for relay	Mechanical 30.000.000 operation; Electrical 100.000 operation	
START INPUT		
Input type	Control with mechanical contact.	
On and Off times for input	ses Min. = 100ms, Max. = ∞	
HOUSING		
Housing type	Suitable for panel mounting	
Dimensions	W77xH34xD70mm	
	Approx. 240g (after packing)	
Weight	Approx. 240g (after packing) Self extinguishing plastics	

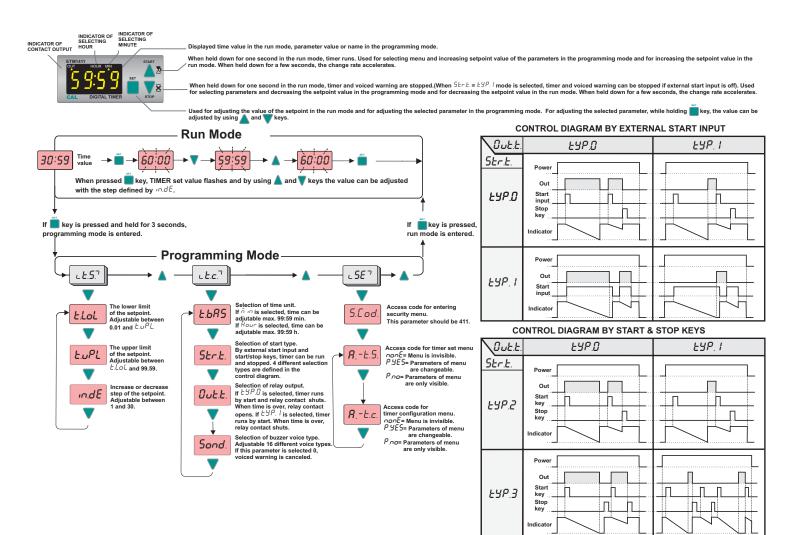
While cleaning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.

### Dimensions



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