

# E3711C Temperature Controller



- ▶ Digital cooling temperature control
- ▶ Programmable Defrost cycle
- ▶ Internal buzzer for audio alarm
- ▶ Large 14mm LED display
- ▶ Front panel rated IP65
- ▶ Industry standard temperature sensors
- ▶ Fully programmable features
- ▶ On/off temperature control
- ▶ Compressor protection delays
- ▶ Password protection
- ▶ 10A 250Vac switching relay contact
- ▶ Programmable upper / lower limit alarm
- ▶ Bezel size DIN 77mm x 35mm

230V ±15% 50/60Hz.



CE Mark

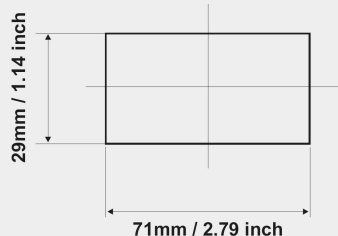


RoHS compliant

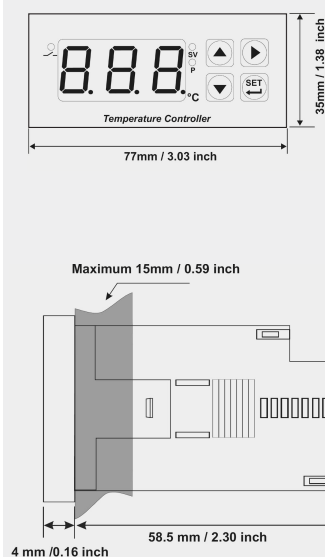
**E3711C**

PART NUMBER

## PANEL CUT-OUT



## BODY & DIMENSIONS



## SPECIFICATION

### Dimensions

Bezel 77.0mm x 35.0mm  
Panel cut-out 71.0mm x 29.0mm  
0 to 15mm  
IP65 Front Panel  
UL94V-2

**Panel thickness**  
**Protection class**  
**Flame retardancy**

**Operating voltage**  
**Operating temperature**  
**Compressor relay**

230V ±15% 50/60Hz.  
0°C to +50°C  
Rated 10A 250Vac

**Temperature sensor**  
**Measuring range**  
**Temperature accuracy**  
**RoHS compliant**  
**CE Mark**

PTC Thermistor  
-50°C to +150°C  
±1% of full scale  
Yes  
Yes



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## OPERATION

The controller is designed to measure and control temperature, and can be used in refrigeration and deep freeze applications. The controller switches the compressor on/off to efficiently maintain the desired setpoint temperature within programmable limits. Configurable delays help to maximise compressor life. In case of a temperature probe defect, the controller can be configured to continue on/off compressor cycles as a backup control system. Defrost is achieved using a programmable timer that prevents the compressor from running for defined time periods. An internal buzzer can be programmed to operate when temperature is outside of high or low setpoints, during defrost cycle or on sensor failure.

The front panel keyboard allows password protected access to the following programmable parameters:

- ▶ Setpoint value (target temperature)
- ▶ Hysteresis (threshold)
- ▶ Temperature offset
- ▶ Switch-on delay after power-on
- ▶ Compressor stop/start time delay
- ▶ Compressor start/start time delay
- ▶ Temperature probe defect detection
- ▶ Backup compressor algorithm during probe defect
- ▶ Defrost time interval / repeat cycle
- ▶ Defrost delay at power-on
- ▶ Minimum/maximum alarm limits
- ▶ Buzzer function selection



## APPLICATIONS

- ▶ Temperature control for refrigeration
- ▶ Temperature monitoring and display
- ▶ Close temperature limit control for stability
- ▶ Process control applications
- ▶ Compressor preservation
- ▶ Automatic Defrost control
- ▶ Temperature alarm



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For use with PTC