

# E3710C Temperature Controller



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

230V ±15% 50/60Hz.



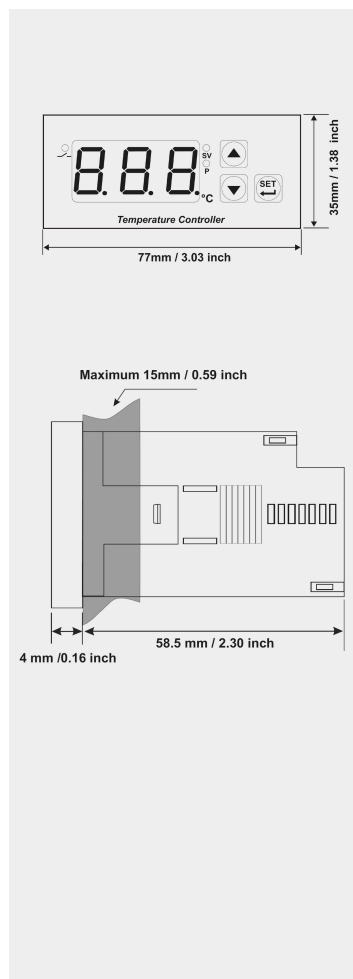
CE Mark



RoHS compliant

**E3710C**  
PART NUMBER

▶ PANEL CUT-OUT	▶ BODY & DIMENSIONS	▶ SPECIFICATION
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<b>Dimensions</b>	Bezel 77.0mm x 35.0mm Panel cut-out 71.0mm x 29.0mm
<b>Panel thickness</b>	0 to 15mm
<b>Protection class</b>	IP65 Front Panel
<b>Flame retardancy</b>	UL94V-2
<b>Operating voltage</b>	230V ±15% 50/60Hz.
<b>Operating temperature</b>	0°C to +50°C
<b>Compressor relay</b>	Rated 10A 250Vac
<b>Temperature sensor</b>	PTC Thermistor
<b>Measuring range</b>	-50°C to +150°C
<b>Temperature accuracy</b>	±1% of full scale
<b>RoHS compliant</b>	Yes
<b>CE Mark</b>	Yes



## OPERATION

The controller is designed to measure and control temperature, and can be used in heating or cooling applications. The controller switches the heater/compressor on/off to efficiently maintain the desired setpoint temperature within the 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.

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

- ▶ Setpoint value (target temperature)
- ▶ Hysteresis (threshold)
- ▶ Minimum/maximum limits
- ▶ Temperature offset
- ▶ Heating/cooling selection
- ▶ 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



## APPLICATIONS

- ▶ Temperature control for heating or refrigeration applications
- ▶ Temperature monitoring and display
- ▶ Close temperature limit control for stability
- ▶ Process control applications
- ▶ Compressor preservation



## PART NUMBER

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