

Read this document carefully before using this device. The guarantee will be expired by device demages if you don't attend to the directions in the user manual. Also we don't accept any compensations for personal injury, material damage or capital disadvantages.

CAL ET2001 ON/OFF TEMPERATURE CONTROLLER

Thank you for choosing CAL ET2001 temperature controller.

- * 77 x 35mm sized
- * Temperature units can be selected (specify at order).
- * Zero point input shift.
- * C1 Relay out for temperature control.
- * When C1 output configuration is selected for cooling, delay time can be entered.
- * Selectable heating / cooling control.
- * In case of sensor failure, relay state can be configured as ON or OFF.
- * CE marked according to European Norms.







CONNECTION DIAGRAM



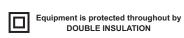
CAL ET2001 is intended for installation within control panels. Make sure that the device is used only for intended purpose. The shielding must be grounded on the instrument side. During an installation, all of the cables that are connected to the device must be free of electrical power. The device must be protected against inadmissible humidity, vibrations, severe soiling. 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 a qualified staff and must be according to the relevant locally applicable regulations.

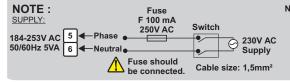












Note 1) Mains supply cords shall meet the requirements of IEC 60227 or IEC 60245.

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.



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TECHNICAL SPECIFICATIONS

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Input Type		Scale Range	Accuracy
J (FeCuNi) Thermocouple	EN 60751	-30400°C / -22°F752°F	± 1% (for full scale) ± 1 Digit

ENVIRONMENTAL CONDITIONS

Ambient/Storage temperature	0 +50 / °C -25 +70°C - 32122°F / -13+158°F
Relative Humidity	Max. humidity 80% for temperatures up to 31°C (88°F) decreasing linearly to 50% relative humidity at 40°C (104°F).
Protection Class	According to EN60529; Front panel: IP65 Rear panel: IP20
Height	Max. 2000m

Do not use the device in locations subject to corrosive and flammable gasses.

ELECTRICAL CHARACTERISTICS

Supply	230V AC +%10 -%20, 50/60Hz or 12/24V AC/DC ± %10±
Power Consumption	Max. 3VA
Wiring	Power connector : 2.5mm² screw-terminal, Signal connector : 1,5mm² screw-terminal conenction.
Line Resistance	Max. 100ohm
Data Retention	EEPROM (Min. 10 years)
EMC	EN 61326-1: 2012 (Performance criterion B is satisfied for EN 61000-4-3)
Safety Requirements	EN 61010-1: 2010 (Pollution degree 2, overvoltage category II)
Indicator	4 digits, 12.5mm, 7 segment red LED

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C1 Output	For 5A Models: 250V AC, 5A (for resistive load), NO control output.
	For 8A Models: 250V AC, 8A (for resistive load), NO and NC control output.
	For 16A Models : 250V AC, 16A (for resistive load), NO control output.
Life Expectancy for Relay	For 5A Models: 5.000.000 Switching for no-load operation; 100.000 switching for 5A resistive load at 250VAC.
	For 8A Models: 30.000.000 Switching for no-load operation; 300.000 switching for 8A resistive load at 250VAC.
	For 16A Models : 30 000 000 Switching for polload operation: 100 000 switching for 16A resistive load at 250VAC

Control Type	Single-setpoint and alarm control.
Control Algorithm	On-Off Control.
A/D Converter	12 bit resolution, 100ms sampling time.
Hysteresis	Adjustable between 1°C (1°F) and 50°C (50°F).

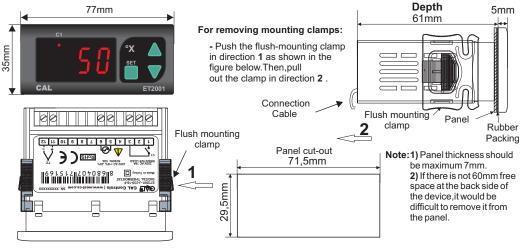
HOUSING

Housing Type	Suitable for flush-panel mounting according to DIN 43 700.
Dimensions	W77xH35xD61mm
Weight	Approx. 215g (After packing)
Enclosure Materials	Self extinguishing plastics



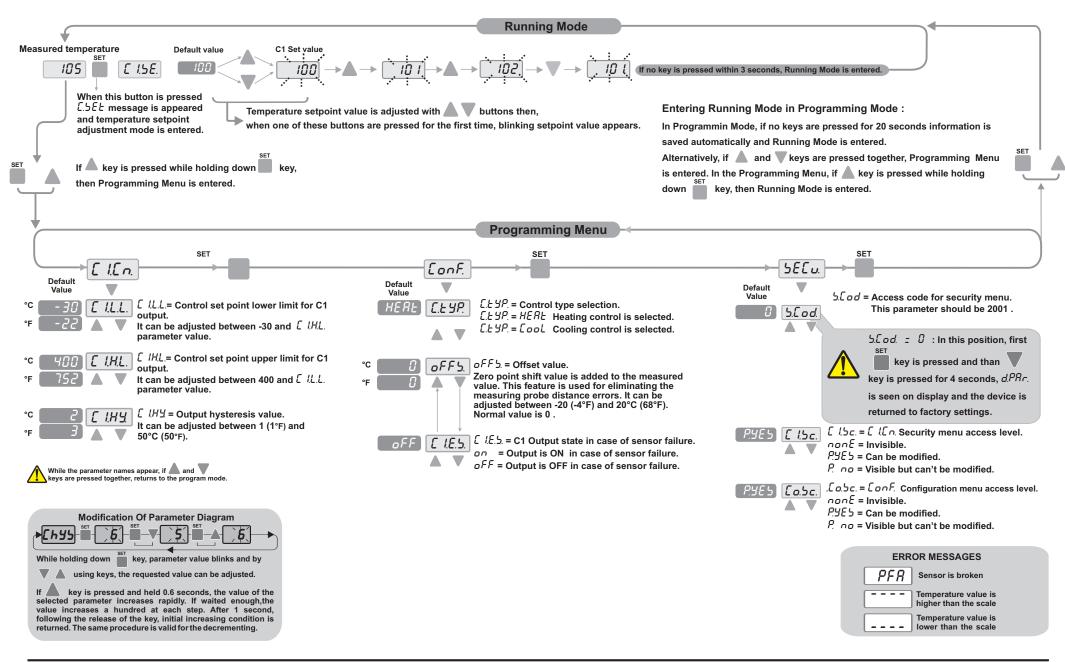
Mhile cleaning the device, solvents (thinner, benzine, acid etc.) or corrosive materials must not be used.

Dimensions



ET2001-E-01-201502 1/2

Programming Diagram





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ET2001-E-01-201502

2/2