

TC1 - SPECIFICATIONS

1. GENERAL

The TC1 temperature controller is designed to control heating or cooling using solenoid valves or other low-current devices.

2. OVERALL

Weight (enclosure) 900 g
Ingress Protection.....IP65

3. COMPONENTS

Enclosure

Enclosure material.....ABS
Enclosure size 6 x 6 x 4 inch (nominal)
TC1 overall (excl. cord grips).....166W x 254H x 157D
(mm)
Enclosure gasket.....PVC elastomer
Stack light.....30 mm dia. x 100 mm
Stack light material acrylic
Pushbutton bezel.....Anodized aluminum
Buzzer diaphragm 316 SS
Buzzer housing.....PPE
Cord grips.....Polyamide
Mounting tabs.....316 stainless steel
Temperature module ** 1/16 DIN
Thermocouple.....K type, braided SS armor + PFA jacket

Electronics

Temp. Control relay 3A @120VAC
Power relay †.....15A @120VAC
Fuse.....3A, glass cartridge 30 mm x 6 mm
Data output.....4-20 mA
Current consumption max. 30 mA (during alarm)
Idle Current.....10 mA
Buzzer SPL.....103 dB
Input power.....~120VAC
Power cord jacket.....SJOOW

** The detailed module settings have separate instructions in the “documents” section of our [TC1 web page](#).

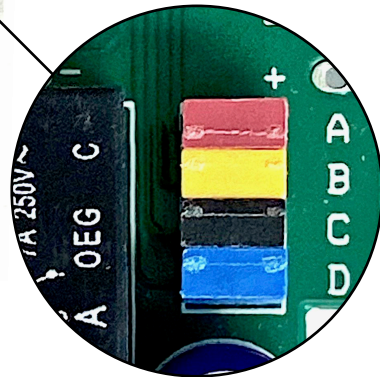
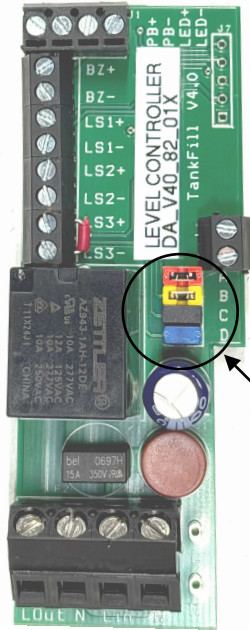
† The power relay switches state when there is an alarm condition. This can be used for things like data communications, building alarm systems.



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4. ALARM CONDITION BEHAVIORS

There is a PCB that controls alarm behaviors. The different behaviors can be selected with jumpers on the PCB. The default is for the buzzer to sound again in 30 minutes after it has been silenced. However, jumper “B” will change it to a one-time alarm that resets when temperature is corrected.



JUMPER	FUNCTION	ON PINS (DEFAULT)	OFF PINS
A	RELAY RESET	AUTO (reset when alarm input stops)	MANUAL (must press button to reset)
B	BUZZER “SNOOZE ALARM”	30 MINS.	DISABLED
C	RELAY ORIENTATION	N.C	N.O.
D	ALARM INPUT	(N.C.)	(N.O.)