

## T1800 Series

### Room Thermostats for Hot Water Heaters in Heating Systems

#### Features

- Attractive contemporary styling
- High quality bi-metal sensor for close temperature differential
- Concealed cover mounting screw to discourage tampering
- Simple on-site set point recalibration
- All slide switches for ease of operation
- Easy to wire to numbered terminals
- Optional set point limit stops available to conserve energy

#### Mounting

The T1800 Series room thermostats can be surface mounted or secured to a standard European 75 x 75 x 35 mm electrical box. See Fig. 2: Mounting Details. Two mounting screws are included.

#### Ordering Instruction

To order, specify complete product model number.

#### General

The T1800 Series room thermostats are available in 2 basic models for line voltage control of valves, relays and fan motors in hot water heaters for heating systems in commercial, industrial and residential installations.

The thermostat consists of

- One manual SPST switch to turn on the hot water system
- One manual SPST switch to turn on the control system
- One SPDT bi-metal switch to turn on the blower or heating/cooling valve
- One LED light to indicate water heater on-off status
- One additional LED light to indicate heating on-off status, for T1802 model only

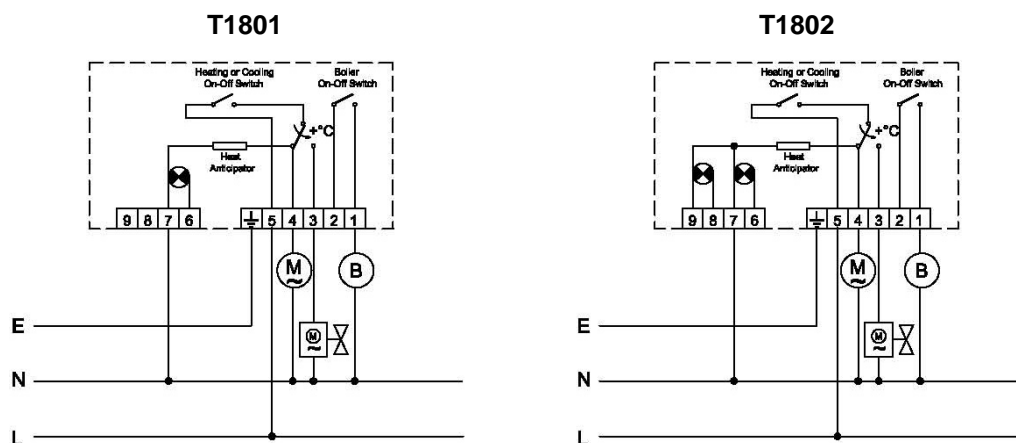


### Specifications

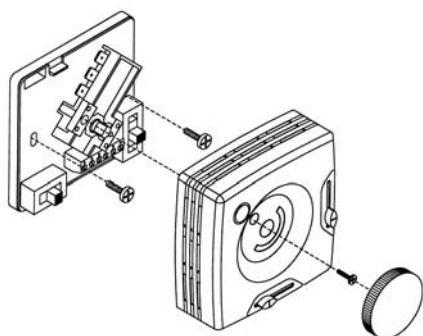
Model Numbers	T1801	Water Heater On-Off, Control System On-Off, SPDT Bi-metal Contacts, 1 LED Indicator
	T1802	Water Heater On-Off, Control System On-Off, SPDT Bi-metal Contacts, 2 LED Indicators
Nominal Operating Differential	Approximately 1 K	
Range	10-30 °C	
Sensing Element	Bi-metal, SPDT	
Manual Switch	SPST	
Body Material	Self-extinguishing, Molded ABS	
Finish	Off White Color	
Electrical Ratings	Thermostat	6 A Resistive, 1 A Inductive, 250 V 50/60 Hz
	Switches	10 A Resistive, 2 A Inductive, 250 V 50/60 Hz
Ambient / Storage Temperature Limits	0 to 50 °C / -30 to 50 °C	
Wire Connections	Screw-down Connectors, wire size 1 mm <sup>2</sup> or 18 AWG solid copper recommended	
Agency Approval	CE Mark Compliant to Low Voltage Directive	
Shipping Weight	0.16 kg (0.35 lb)	
Dimensions	87 x 87 x 37 mm	

*The performance specifications above are nominal and subject to tolerances and application variables of generally acceptable industry standards. Mega Controls shall not be liable for damages resulting from misapplication or misuse of its products.*

**Figure 1: Wiring Diagrams**



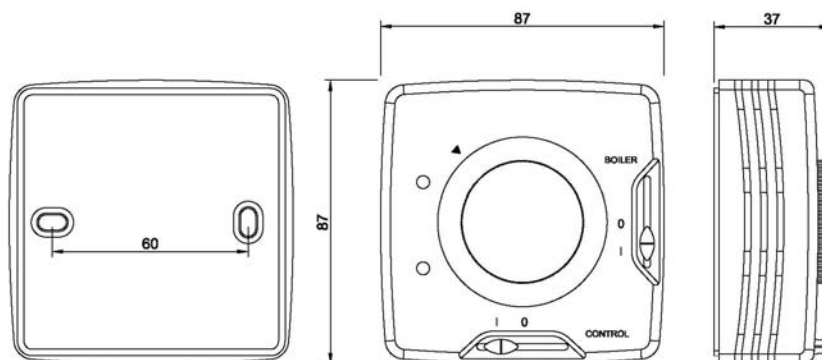
**Figure 2: Mounting Details**



### Field Calibration Procedure

To obtain a precise thermostat set point, measure the room temperature with a thermometer when the air conditioning unit is running. Remove the dial plate from the knob after removing the knob from the cover. Reinstall the knob and replace the dial plate with the nearest set point value corresponding to the measured temperature pointing to the index.

**Figure 3: Dimensions in mm**



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