



# Instruction Manual

## TPST201 (569566) - BOSS™ Room Thermostat

Thank you for purchasing this product. If installing for someone else, please ensure that the instructions are handed to the householder.

Please read this manual prior to installation or use.

**Always isolate the AC MAINS supply before removing the unit from the backplate.**

Please leave these instructions with the end user where they should be kept in a safe place for future reference.

## Installation

The ideal position to locate the TPST201 room thermostat is about 1.5m above floor level. It should be mounted in a location where the thermostat is accessible, reasonably lit and free from extremes of temperature and draughts. Do not mount the thermostat on an outside wall, above a radiator or in a location where it may be subjected to direct sunlight.

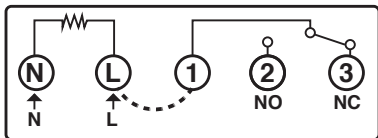
The electrical connections to the TPST201 are made to the backplate supplied. This simplifies installation, as no connections are made to the controller itself. Connection details are shown below - no Earth connection is required for the correct and safe operation of the TPST201, but a parking terminal is provided to connect an Earth wire if one is present

## Jumpers

Jumpers	Position	Function	Default
Valve Protection	VP	ON: Enable      OFF: Disable	ON
Channel load selector	1-5	Select total current loading of Thermostat provided: Position 1: <1A Position 2: 1A to 2A Position 3: 2A to 3A Position 4: 3A to 4A Position 5: > 4A	1

## Backplate Connections

Terminal Name	Function
N	Mains supply Neutral
L	Mains supply Live (230Vac)
1: COM	Switch common terminal (remove jumper link for volt-free connection) External jumper linked Live (230Vac heating applications only)
2: NO	Normally open
3: NC	Normally close
E	Earth



After installing the backplate in a suitable location, wiring connections can be made as shown above. The following criteria apply to the installation:

- The incoming AC mains supply should be 230Vac and fused at 5amps
- Optimum cable size for installation is 1.5mm<sup>2</sup>; wiring colours should be in accordance with the current requirements of the IEE Wiring Regulations
- Cable entry should be from the rear of the backplate
- All wiring connections should be securely made, and be firmly gripped between the square brass washers on each terminal

Do not restore the mains supply to the system until all associated items are fully installed.

NOTE: All electrical installation work should be carried out by a suitably qualified Electrician or other competent person. If you are not sure how to install this thermostat consult either with a qualified electrician, heating engineer or your boiler/heating system supplier for advice on how to continue.

Do not remove or refit the TPST201 onto the backplate without the mains supply to the system being isolated.

### **User Instructions**

The TPST201 is adjusted very easily by turning the rotary dial on the front of the thermostat to the required temperature setting. To adjust the set temperature, turn the rotary dial to the left to decrease, or right to increase the set temperature.

The indicator on the front panel will light when the temperature is below the set value, showing that the thermostat is calling for heat from the boiler. Once the room reaches the set temperature, it will turn off and the TPST201 will stop calling for heat from the boiler.

### **Heat cut off at high temperature**

When room temperature is over limit at 36°C, all heating outputs will be turned off regardless of the control pattern and delay timers.

### **Valve protection**

This function can be enabled/disabled by jumper, set jumper to OFF to disable this function or ON to enable this function.

This turns on the relay (valve) for 5 minutes in every 7 days to prevent the valve getting stuck through not moving for a long time.

## Product Specification

Model	TPST201
Type	Surface mounted electronic room thermostat designed for 230V AC heating applications
Temperature Scale (°C or °F)	°C
Temperature Setting Range	5°C - 30.0°C, at minimum level (5°C) as factory default.
Power Control: Rating Relay output On/Off Indication	230V/50Hz, 0.2A 6(2.5)A Red LED
Operating Temperature	0°C - 50°C
Storage Temperature	-20°C - 60°C
LED	Red for heating