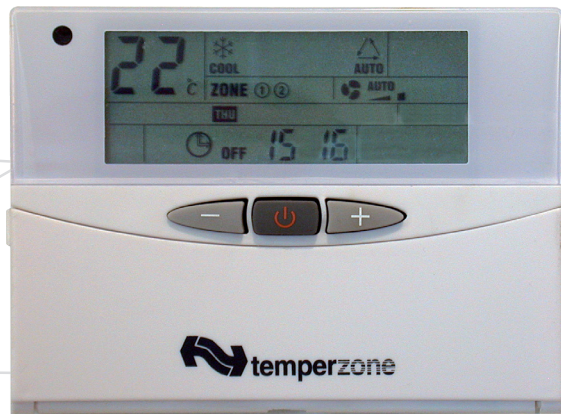# SAT-2 Room Temperature Controller

Note: Zone buttons shown left only function if optional Zone components installed. Swing button only applicable to underceiling units.

User Friendly

temperzone's SAT-2 room thermostat controller has been designed to maintain a high level of comfort for room occupants. Emphasis has been placed on providing controls that are easy to use — despite the sophisticated microprocessor system that runs it. Use of the Auto and Timer function settings allows you to 'set it and forget it'.

The thermostat is relatively inexpensive and has proven very reliable.

Features

- Cool / Dry / Fan modes.
- Heat / Auto modes.
- Auto / High / Medium / Low fan speed selection.
- Hot Start and Hot Keep function in heating mode.
- Reverse Cycle, or Cool + Electric Heat option.
- Auxillary Electric Boost Heat control.
- Temperature setting range from 16°C – 30°C.
- LED to indicate status of the unit [Power On/Off].
- Room temperature display.
- Real time clock.
- 7 day timer – two start and/or stops per day
- On demand countdown run timer, up to 9 hours.
- Auto-Restart or No Restart after power failure.
- Continuous or Intermittent selection of fan run-on in dead zone.
- Backlit screen for ease of reading; changes colour for each mode.
- Soft touch tab keys
- Battery backup (3V Lithium CR2032).
- Sleep function.
- Zone Control – up to four zones.
- Audible beep to acknowledge key entry or wireless remote control.
- Low voltage control cable.
- Colour: white and light grey (Keypad - gold and blue).
- Optional:
  Infra Red Remote controller
  Remote return air sensor,
  Extended interface lead,
  Zone Control board,
  Zone Control transformer 220/240V to 24V ac, 65VA.
  Extra Wall Control plaque.

SAT-2 Room Temperature Controller

Compatibility

This SAT-2 is compatible with temperzone DX air cooled and Hydronic systems, single or two stage systems, and is available:

1. Supplied complete with selected temperzone Ducted Splits (ISD/L), Underceiling (ISU) and Packaged Rooftop (OPA), Packaged Water Sourced (HWP) air conditioners, and
2. Supplied as a kit for retro-fitting to other temperzone units not already supplied with a thermostat.

The SAT-2 Wall Control sends instructions to the SAT-2 Controller board (PCB) which is mounted, either:
(a) inside the electrical box of a ISD indoor unit, or
(b) on the electrical board for an OPA.

SAT-2 Thermostat Kit

The SAT-2 is comprised of two main components:
(1) Controller board (PCB), and
(2) Wall Plaque remote mounted.

The temperature sensor (thermostat) is located in the back of the wall plaque. A single remote thermostat option is also available that plugs into the wall plaque; the temperature reading will be averaged between the two temperature sensors.

Zone Control

The **temperzone** SAT Zone Control kit is an add on option to allow up to 4 zone dampers to be switched from the SAT-2 wall control. Standard damper motors, 230/240 volt or 24 volt, can be used with drive open/ drive close or drive open/spring closed.

Remote Air Temperature Sensor/s (option)

The air temperature sensor is by default located in the Wall Plaque. Optional remote air temperature sensors are available so that the measurement of the room temperature can be taken away from the wall plaque, eg. elsewhere in the room or in the return air duct.

Remote sensor's can be plugged directly into the Controller board (PCB). This board accepts up to four sensors which are designated as 'zones' one to four. The first return air sensor will automatically replace the Wall Control sensor and should be located in the same room as the Wall Control. The Controller will always use the average of the zones selected. Refer to the separate installation instructions supplied with the PCB for further details.

All remote sensor wires must be run separately and away from main power supply wires, including the interconnecting cable.

Further Information

Additional SAT-2 Support Information is available at **www.temperzone.biz** including troubleshooting tips and user manual.

SAT-2 Thermostat Kits

Item No.	Description
525-001-014	**SAT 2.1 Thermostat Kit for 230V systems** for retro-fitting on ISD/L 55–280K & OPA 100–178RKT
525-001-016	**SAT 2.1 T/stat Kit for 24V & two stage sys.** for retro-fitting on ISD 298–950K & OPA 205–960RKT

Accessories

Item No.	Description
201-000-116	Remote Return Air Duct Sensor c/w 5 m lead
201-000-044	Remote Wall Mtd Air Sensor - in box, excl. lead, single bead RS1
201-000-045	Remote Wall Mtd Air Sensor - in box, excl. lead, twin bead RS2
201-000-046	Sensor lead (excl. sensor) - 1.5 m
201-000-047	Sensor lead (excl. sensor) - 6 m
201-000-048	Sensor lead (excl. sensor) - 12 m
201-000-049	Sensor lead (excl. sensor) - 25 m
201-000-026	Interface Cable 10 m
201-000-034	Interface Cable 20 m
325-124-011	Indoor Unit–to–Outdoor unit connection lead (7 core) 12.5 m
325-124-013	Indoor Unit–to–Outdoor unit connection lead (7 core) 25 m
201-000-036	SAT Zone Control Kit
201-000-032	230V / 24V Transformer (65VA)
201-000-035	SAT Infra Red Remote Controller
201-000-024	SAT-2.1 Wall Control plaque (additional)

Warranty

The SAT-2 is warranted as a spare part for 12 months in Australia and New Zealand. When supplied complete with a temperzone air conditioning system, the warranty is 5 years but only if the system has been installed by a temperzone Approved Installer.

Note
The manufacturer reserves the right to change specifications at any time without notice or obligation.

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