

SMT-850

7" Colour Touch Screen Thermostat

With Zone Control

Making Life Comfortable

General Description

Smart Temp Halo SMT-850 Thermostat

Smart Temp has a well-earned reputation for designing innovative, high-quality control solutions that meet today's evolving comfort needs. The SMT-850 "Halo" thermostat lives up to this standard.

Advanced Control Flexibility

The Halo offers exceptional flexibility with 10 relays (5 with customizable functions) that can control:

- 4-Stage Heat Pumps with multi fan speeds, or
- 4 separate stages of heating and cooling with fan control.

The Halo also includes 3 separate 0-10V outputs, useful for applications such as:

- Valve control
- Inverter capacity management
- 3-way valves
- CO2 management control signals etc

In addition, the Halo provides 4 digital or analog inputs, which can be set up as remote or outdoor air sensors, alarm inputs, or overrides.

Simplified Wiring

When hardwiring is difficult, the Halo supports optional LoRa remote sensors, relays, and digital inputs. Simply assign a function (relay, sensor, etc.) to the LoRa device, and the Halo will control it as seamlessly as a hardwired connection.

Enhanced User Experience

Say goodbye to user complaints. The Halo can operate in various installer-defined modes:

<u>Commercial Mode:</u> Ideal for business settings that require scheduling. In this mode, you can easily program 365 days start-stop schedules, with a built-in after-hours run timer to ensure compliance with the 1668 BCA standard. The Halo can even control outside air economy cycle when a outside air sensor is fitted.

<u>Residential Mode:</u> Home users will appreciate the easy setback programming, allowing up to 6 daily events with adjustable override timers.

<u>Manual Mode:</u> Prefer a simpler setup? Set the Halo to manual mode and enjoy straightforward, set-and-forget temperature control.

The Smart Temp Halo SMT-850: Precision control, simple operation, and adaptable comfort for any setting.

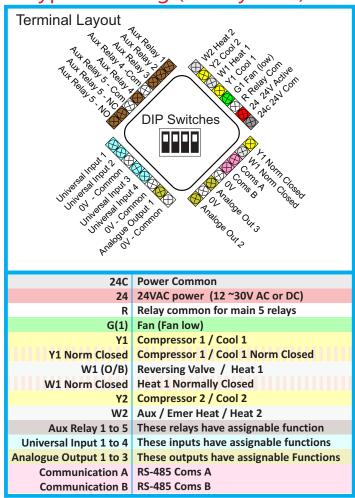


Condensed Features

Full Wi-Fi Control with a free mobile app ModBus RTU & IP and BACnet MSTP & IP LoRa Wireless Sensors and Relays (optional) Heat Pump, Heat Add-On- Cool and 0-10V Valve Control Inverter AC Compatibility with support for all major brands **Control up to 4 Temperature controlled zones** Single Fan, Multi Speed Fan or DC Fan Control Up to 4 Compressor Stages (with Lead lag) Up to 4 Stages of Heat and 4 Stages of Cool Customisable 7" Colour "Capacitive" Touch Screen **Commercial / Residential Scheduling or Manual Rh Monitoring with Control Outputs** NDIR CO2 with Control Outputs (optional) **Light Sensor for Automatic Backlight Control Simple to Navigate Installer Options Menu Full Local Product Support Designed and Built by Smart Temp Australia Comprehensive 3 Year Warranty RTB**



Typical Wiring (Full System)

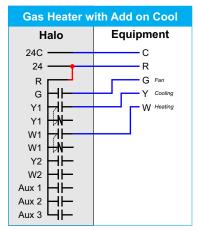


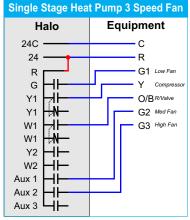
Just More Clever Features

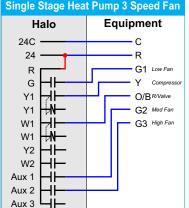
The Halo offers an extensive range of Inputs and Outputs, along with advanced AI and control options integrated into its software. This makes it versatile enough to manage a wide array of HVAC systems with ease. In commercial settings, the Halo meets BCA 1668 compliance standards, and it's equally powerful in residential applications. For simplicity, the Manual mode is ideal for hotel environments or users who prefer straightforward settings.

A small example of the Halo control capabilities is shown below. for more information please see the full manual available for download at www.smarttemp.com.au

temperzone Hi-Level temperzone Halo UC 7 / UC8 12V 0V A2 The Halo is a direct replacement for the temperzone TZT-100. Sat 3 and the Smart Temp SMT-770 thermostat. No configuration changes are required.







3 Zones using Belimo LMU-24T Motors Equipment Halo 24C 24 R G Y1 Y1 W1 W1 Y2 W2 Aux 1 Aux 2 Aux 3

Installer Menu

The SMT-850 Halo features a PIN-protected installer menu, allowing qualified personnel to adjust its functions, user interactions, and control over connected HVAC systems and devices. Given the potential impact on performance, only individuals with a solid understanding of HVAC controls should make changes in this menu.

A brief overview of some installer options is provided below. While the installer menu offers a wide range of settings, the default configurations are ideal for most applications. If adjustments are needed, the menu is intuitively designed for easy navigation and customization.

Menu Settings include (See full manual for all settings)

Security Settings

7 levels of button lock

Temperature limits

Installer PIN

Equipment Control Options

Number of stages

Timers (Run / anti-cycle)

Lead Lag

High / Low Balance point settings etc

Fan Control

Fan purge

DC fan settings

Smart / Summer fan

User Control Options

Residential commercial programable mode / manual mode

Display settings

Temperature / time format

Sensor calibrations

IO Options

Relays - Zone dampers / Comp stages / Alarms / Economy

Inputs - Sensors / Occupancy / Faults /Force On-Off

0-10v Outputs

Valve control

DC fan control

Economy Damper Control

Inverter Capacity control

CO2 / Temp / RH outputs

Advanced

Economy Settings

Zone Control settings

Data Logging settings

Expanded

LoRa device settings (Relays, Sensors, inputs, 0-10V outputs)

Communications

Modbus / BACnet / Temperzone / Intesis / ST interfac protocols

Coms speedd / Address / parity etc

Save Settings

Backup and restore settings or all

Forced firmware update

