SMT- 400 Digital Thermostat with Wi-Fi

ENTERPRISE™

WiFi

Making Life Comfortable

General Description

Smart Temp are a prestigious manufacturer that have well over 50 years experience in designing and manufacturing Heating and Cooling control systems. When Smart Temp began designing the SMT-400 we used all of our experience to ensure one thing above all else - that the SMT-400 was amazingly simple to use.

Tapping the "Mode" button will cycle the SMT-400 through all available modes such as Cool, Heat or Auto Season Changeover mode. Pressing the Up or Down button will adjust your comfort level. What could be more simple?

As impressive as the SMT-400 appears to be on the surface, it is what it does silently, in the background, that makes the SMT-400 a truly Smart thermostat. For example, the SMT-400 can monitor the current outside air temperature and alter its control logic to ensure comfort levels are maintained using the least amount of energy for the current conditions. The SMT-400 will even employ intelligence that will calculate the cooling potential of outside air. If found suitable the SMT-400 will use this outside air to cool your home or office without the need to run the air conditioning systems. The SMT-400 can even suspend (or alter) heating or cooling automatically based on room occupancy or if doors or windows are left open.

For those that desire scheduling, simply use the free App or Web portal to easily preset your individual daily comfort levels, even for all 365 days should you wish. If you really want easy then enable the Geo-fence function and have your heating and cooling system automatically turn on or off as you approach or leave your home or office - now that's simple.

The SMT-400 supports more than a simple gas heater or a basic heat-pump. Multi fan speed, multistage heating and cooling systems as well as 0-10V modulating valve control for fan coils are all able to be managed by the SMT-400.

A library of Input / Output option within the SMT-400 permits the setting of fault, temperature and humidity alarms, provides warm start and defrost logic as well as many other industry leading functions. As an installer, all you need to do is enable the functions you want to use for a particular project and let the SMT-400 take care of it.

Features

Free IOS & Android App Plus Web Portal

Large Bright Backlit Touchscreen

High Precision Temperature and Humidity Sensor

Amazingly Simple to Operate and Understand

365 Day Scheduling (Via APP or Web Portal)

6 Internal Relays for Multistage Equipment Control

Single or 3 Speed Fan Control Plus 0-10V Fan Control

Active Energy Management and Control Logic

3 x 0-10V Outputs With Library of Functions

3 x Universal Inputs With Library of Functions

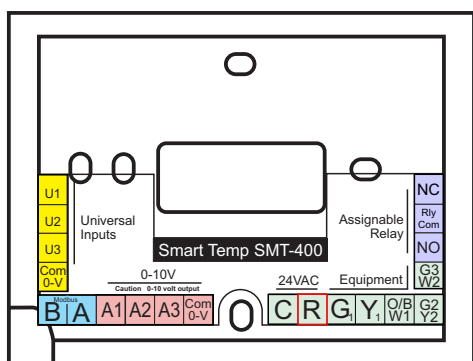**Volt Free Change Over Relay With Library of Functions**

Modbus RTU communications

Available in Black or White

Comprehensive 3 Year Warranty RTB

Smart Temp

Terminal Wiring

Universal Inputs
Library of Assignable Functions Such As:
- Occupancy (PIR) Input
- Fault / Fire Shutdown
- Door / Window Switch Input
- Outside Air Sensor
- Remote or Averaging Temperature Sensor
- Data Sensor (Reports Only to Modbus)
- Warm Start and Defrost Functions

0-10V Outputs
Library of Assignable Functions Such As:
- Heat & Cool Valves
- Modulating Fan
- Capacity Control
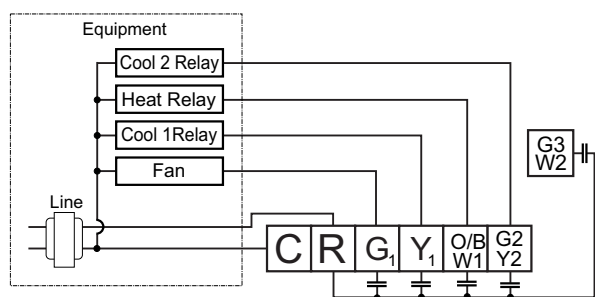- Economy Dampers

Modbus
Connects to Modbus Data Networks

Equipment Relays
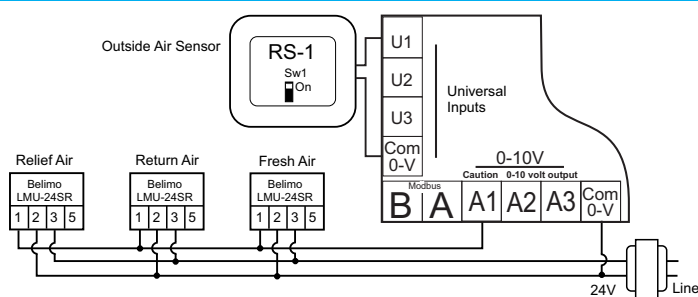|	
C	Control Common 24-
R	Control Active 24+
G1	Single or Low Fan Speed
Y1	Cool (or Compressor)
OB/W1	Heat (or Reversing Valve)
G2 / Y2	Cool or Comp 2 / Medium Fan Speed
G3/W2/Aux	Heat 2 / Aux Heat / High Fan Speed

Assignable Relay
Library of Assignable Functions Such As:
- Occupancy Status
- Heat & Cool Outputs
- Heat, Cool, Humidity Alarm Output etc
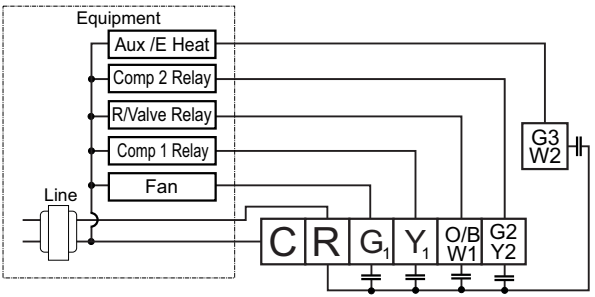
Typical Wiring Example
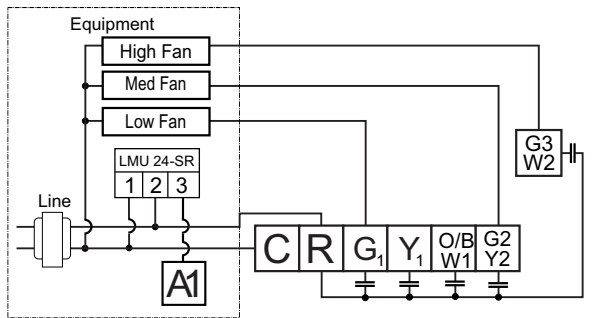
Gas Heat with 2 Stage Cool
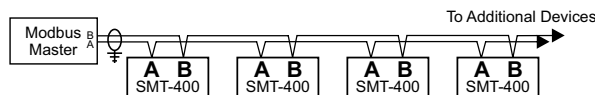

Fresh Air Economy Cycle

Two Stage Heat Pump with E Heat

Condensed Specification

Power	24V +/- 20% 50/60 Hz
Temperature Range	5°C to 35°C (41°F to 95°F)
RH Measurement range	5 to 99% RH
Relay Outputs	6 Relays (5 Equipment & 1 Assignable)
Relay Rating.	1Amp @ 24VAC
Analogue Outputs	3 With Assignable Functions
Universal Inputs	3 With Assignable Functions
Back Light	White LED
Back Light Life	40,000 Hours to Half Intensity
Operating Temperature	-5°C To 50°C
Operating Rh	0 To 95% (Non Condensing)
0-10 Outputs	5mA Max
Sensor Accuracy	+/- 0.5°C at 25°C
Timer Accuracy	+/- 2.5 Min Minimum Per Year
Warranty	3 Years RTB
Approvals	FCC, CE & Ctick
Communications	Modbus RTU 4.8 / 9.6 /19.2
WiFi	2.4GHz WEP/WPA/WEP2 802.11b/g/n
Size	103mm X 113mm X 26mm

Designed and Manufactured by Smart Temp Australia 2018

Due to continual product development the specifications of the Smart Temp SMT-400 is subject to change without notice.

0-10V Cool Valve, 3 Fan Speeds

Authorised Distributor

Modbus Wiring Overview

Ps5000110219