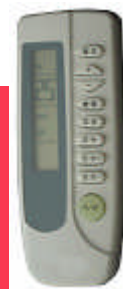




# Thermostats



*... comfort at your command*

**Carrier** has met temperature control needs worldwide with its thermostats. Carrier thermostats provide computer-like intelligence with extremely simple operation in an elegant package. Designed to maximize performance, Carrier thermostats offer reliability with accurate temperature control while blending in with the surrounding decor. Controlling heating and cooling systems at the touch of a button, these powerful devices help deliver comfort year round.

The new line-up has 4 models including programmable and non-programmable units with both single and multi-stage capability. Each model series has units in Classic and Deluxe versions.

## **Classic**




- Fahrenheit/Centigrade display
- Manual change over
- Backlit display
- 3 fan speed control
- Cooling and heating mode
- Working mode display
- Room temperature & set point temperature display

## **Deluxe**

- features in addition to Classic models
- Fahrenheit/Centigrade display
- Auto Changeover
- Separate set point
- Calibration capability
- Built in compressor protection



# Models and Specifications

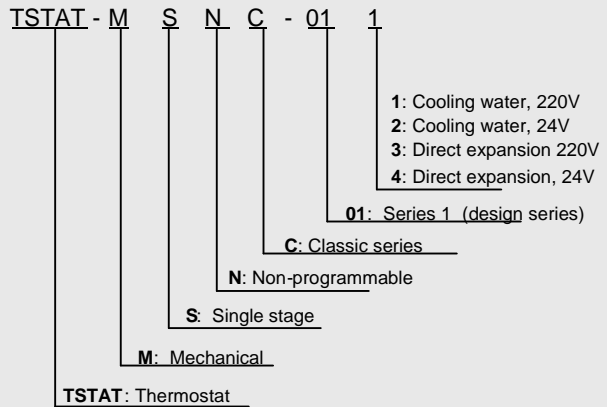
	Part Number	Display	Stage	Programmable/ Non-programmable	Classic/ Deluxe	Voltage	Application
<b>Series 1</b> 	<b>Series 1</b>						
	<b>Mechanical-Classic</b>						
	TSTAT-MSNC-011 *	Mechanical	Single	Non-programmable	Classic	220V	Cooling water
	TSTAT-MSNC-011M	Mechanical	Single	Non-programmable	Classic	220V	Cooling water
	<i>* electronic type with mechanical design</i>						
<b>Series 2</b>  	<b>Series 2</b>						
	<b>Non-programmable -Classic</b>						
	TSTAT-ESNC-021	Electronic	Single	Non-programmable	Classic	220V	Cooling water
	TSTAT-ESNC-022	Electronic	Single	Non-programmable	Classic	24V	Cooling water
	TSTAT-ESNC-023	Electronic	Single	Non-programmable	Classic	220V	Direct expansion
	TSTAT-ESNC-024	Electronic	Single	Non-programmable	Classic	24V	Direct expansion
	TSTAT-EMNC-023	Electronic	Multi	Non-programmable	Classic	220V	Direct expansion
	TSTAT-EMNC-024	Electronic	Multi	Non-programmable	Classic	24V	Direct expansion
	<b>Non-programmable -Deluxe</b>						
	TSTAT-ESND-021	Electronic	Single	Non-programmable	Deluxe	220V	Cooling water
	TSTAT-ESND-022	Electronic	Single	Non-programmable	Deluxe	24V	Cooling water
	TSTAT-ESND-023	Electronic	Single	Non-programmable	Deluxe	220V	Direct expansion
	TSTAT-ESND-024	Electronic	Single	Non-programmable	Deluxe	24V	Direct expansion
	TSTAT-EMND-023	Electronic	Multi	Non-programmable	Deluxe	220V	Direct expansion
TSTAT-EMND-024	Electronic	Multi	Non-programmable	Deluxe	24V	Direct expansion	
<b>Series 3</b>    	<b>Series 3</b>						
	<b>Non-programmable - Classic</b>						
	TSTAT-ESNC-031	Electronic	Single	Non-programmable	Classic	220V	Cooling water
	TSTAT-ESNC-032	Electronic	Single	Non-programmable	Classic	24V	Cooling water
	TSTAT-ESNC-033	Electronic	Single	Non-programmable	Classic	220V	Direct expansion
	TSTAT-ESNC-034	Electronic	Single	Non-programmable	Classic	24V	Direct expansion
	TSAT-EMNC-033	Electronic	Multi	Non-programmable	Classic	220V	Direct expansion
	TSTAT-EMNC-034	Electronic	Multi	Non-programmable	Classic	24V	Direct expansion
	<b>Non programmable - Deluxe</b>						
	TSTAT-ESND-031	Electronic	Single	Non-programmable	Deluxe	220V	Cooling water
	TSTAT-ESND-032	Electronic	Single	Non-programmable	Deluxe	24V	Cooling water
	TSTAT-ESND-033	Electronic	Single	Non-programmable	Deluxe	220V	Direct expansion
	TSTAT-ESND-034	Electronic	Single	Non-programmable	Deluxe	24V	Direct expansion
	TSTAT-EMND-033	Electronic	Multi	Non-programmable	Deluxe	220V	Direct expansion
	TSTAT-EMND-034	Electronic	Multi	Non-programmable	Deluxe	24V	Direct expansion
	<b>Programmable - Classic</b>						
	TSTAT-ESPC-031	Electronic	Single	Programmable	Classic	220V	Cooling water
	TSTAT-ESPC-032	Electronic	Single	Programmable	Classic	24V	Cooling water
	TSTAT-ESPC-033	Electronic	Single	Programmable	Classic	220V	Direct expansion
	TSTAT-ESPC-034	Electronic	Single	Programmable	Classic	24V	Direct expansion
	TSTAT-EMPC-033	Electronic	Multi	Programmable	Classic	220V	Direct expansion
	TSTAT-EMPC-034	Electronic	Multi	Programmable	Classic	24V	Direct expansion
<b>Programmable - Deluxe</b>							
TSTAT-ESPD-031	Electronic	Single	Programmable	Deluxe	220V	Cooling water	
TSTAT-ESPD-032	Electronic	Single	Programmable	Deluxe	24V	Cooling water	
TSTAT-ESPD-033	Electronic	Single	Programmable	Deluxe	220V	Direct expansion	
TSTAT-ESPD-034	Electronic	Single	Programmable	Deluxe	24V	Direct expansion	
TSTAT-EMPD-033	Electronic	Multi	Programmable	Deluxe	220V	Direct expansion	
TSTAT-EMPD-034	Electronic	Multi	Programmable	Deluxe	24V	Direct expansion	



## Series 1 Classic



### MODEL NOMENCLATURE



### GENERAL

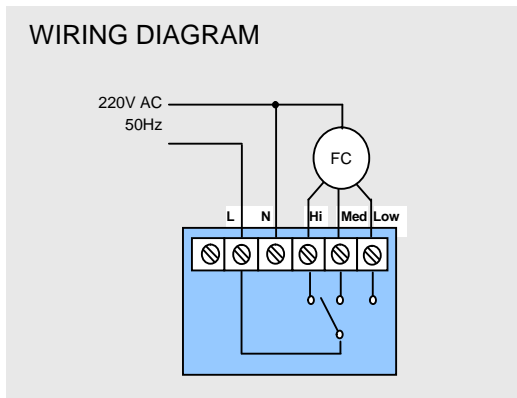
Series 1 thermostats are used to control room temperature in industrial, commercial and residential environment via controlling the fan coil units (With or without motorized valve), dampers, diffuser etc., which uses NTC to detect the room temperature and compare it with the set-point so as to automatically keep the room temperature stable.

### PRODUCT FEATURES

- To control fan coil, valve and damper etc.
- Manual switch to select work state and use knob to set the temperature.
- Thermostats can be directly wall mounted

### SPECIFICATIONS

#### WIRING DIAGRAM



Set-point Range	: 10~30°C
Operating Difference	: ±1°C
Power Supply	: 220V ± 10% , 50/60Hz
Dimension (W×H×D)	: 85 × 130 × 43 mm
Max. Load	: < 150W
Power Consumption	: < 2W
Shell	: Fire Retardant ABS
Sensor	: NTC

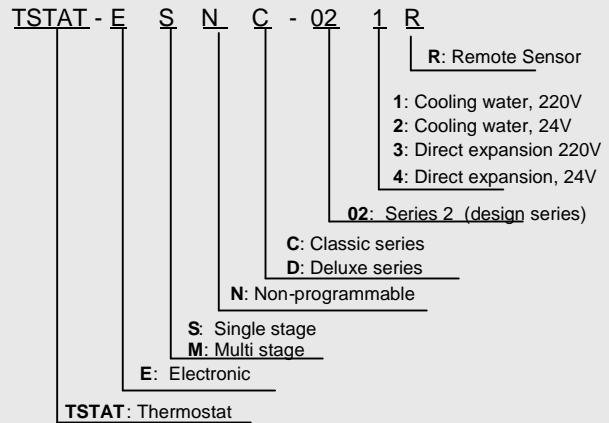
# Thermostats



## Series 2 Classic / Deluxe



### MODEL NOMENCLATURE



### GENERAL

Series 2 thermostats use the latest digital control technology coupled with a large easy to read LCD display.

The LCD display shows the following items:

- Working Mode (cool or heat)
- Speed of fan coil
- Room temperature
- Set-point temperature

Remote control (optional)

### PANEL & DISPLAY FEATURES

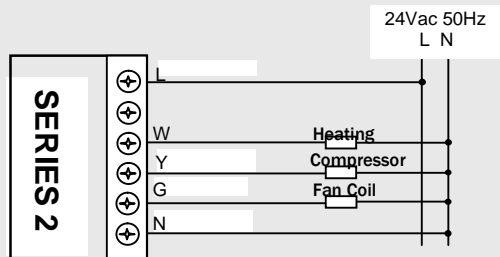
There are following keys on the panel:

- On / Off “”
- Exchange mode (cool or heat) key “”
- Fan speed key “”
- Set-point temperature keys “” and “”

### SPECIFICATIONS

Temperature Range	: 5 ~ 35°C
Accuracy	: ± 1°C
Current Load	: < 2A
Power consumption	: < 2W
Display	: LCD
Sensor	: NTC
Button	: Touch button
Power Supply	: 24Vac ± 10% , 50Hz
Dimension	: 86 × 86 × 13 mm
Fixing Hole Distance	: 60 mm (Standard)

### WIRING DIAGRAM



# Thermostats



## Series 3 Classic / Deluxe



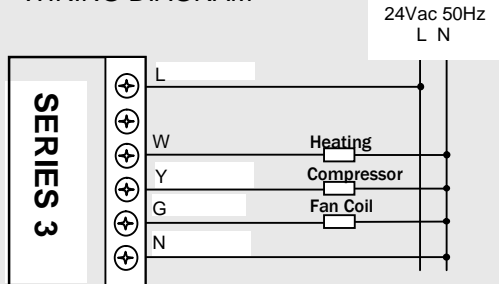
### GENERAL

Series 3 thermostats adopt Digital Control Technology and has large LCD display, Displaying Working statuses (Cool, Heat and Vent), Fan Speed, Room Temperature, Temperature Setting, Clock and Timing for starting/stopping the unit etc.

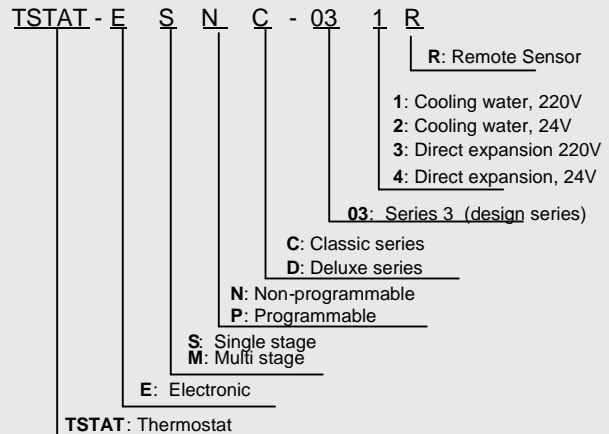
2 models including programmable and non-programmable units.

Remote control (optional)

### WIRING DIAGRAM



### MODEL NOMENCLATURE



### PANEL & DISPLAY FEATURES

There are following keys on the panel:

- On / Off “”
- Exchange mode (cool or heat) key “”
- Fan speed key “”
- Set-point temperature keys “” and “”

### SPECIFICATIONS

Temperature Range	: 5 ~ 35°C
Accuracy	: ± 1°C
Current Load	: < 2A
Power consumption	: < 2W
Display	: LCD
Sensor	: NTC
Button	: Touch button
Power Supply	: 24Vac ± 10% , 50Hz
Dimension	: 86 × 86 × 13 mm
Fixing Hole Distance	: 60 mm (Standard)