TSTPHA01, Côr® 5
TSTWHA01, Côr® 5C
TSTPRH01, Côr® 7
TSTWRH01 Côr® 7C
("C" Designates Connected (Wi−Fi) Thermostat)

côr®
THERMOSTAT

Product Data

The Côr Series of thermostats consists of Wi−Fi and non−Wi−Fi air conditioner, heat pump and Thermidistat controls. These units feature non−mercury, non−lead based electronic controls built into a subtle, slim plastic enclosure.

FEATURES/BENEFITS

Côr Wi−Fi and Non−Wi−Fi Thermostats

- Free Mobile App (Côr 5C / 7C)
- Weather (Côr 5C / 7C)
- Equipment setup on a smart device
- 7, 5-2, All Days programmable
- Hold till Date and time (Vacation mode)
- 4 or 2 periods per day programmability
- Programmable fan by period
- Air circulation by period
- Adjusts automatically for Daylight Savings Time
- Auto changeover available
- System Alerts and Reminders
- Battery free
- RoHS compliant
- Non−volatile memory to retain settings during a power outage
- Keypad security lockout (3 levels on thermostat)
- English/Metric units selection
- Hybrid Heat compatible
- RC/RH power compatible

Côr 7 & 7C Additional Features

- Touch−N−Go programmability (can be disabled)
- Adjustable segment colors
- Back−lighting configurable by period
- Two−Wire Installation option*
- Outdoor Air Temperature (OAT) sensor option**
- Wired remote room sensor option**
- Humidifier and Dehumidifier or Ventilator Option**
- Filter/UV light/Humidifier pad replacement reminders
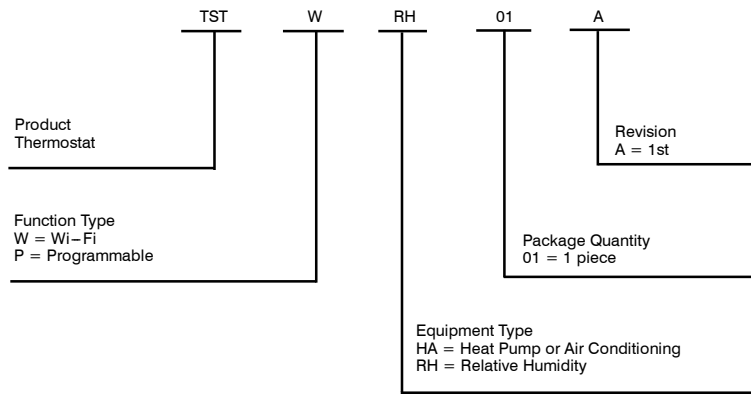
Côr 7, Côr 7C Thermidistat Control

- 2 stage HP with Aux heat w/HUM control
- 2 Stage Hybrid heat with aux heat w/HUM control
- 2 Stage furnace with 2 stage cooling w/HUM control
- Humidity display
- Humidify output for direct control of humidifier on thermostat
- Dehumidify output for variable−speed blowers**

Two−Wire relay module accessory sold separately
 ** Requires Two−Wire relay module accessory

Fig. 1 − Côr 7 / 7C Programmable Thermostat

Fig. 2 − Côr 5 /5C Programmable Thermostat

Designed and Assembled in the USA

MODEL NUMBER NOMENCLATURE

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TST        W        RH        01        A
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Product
Thermostat

Function Type
W = Wi–Fi
P = Programmable

Equipment Type
HA = Heat Pump or Air Conditioning
RH = Relative Humidity

Package Quantity
01 = 1 piece

Revision
A = 1st

DIMENSIONS

Front View
Côr 7 Series Thermostat

Side View
Côr 5 & 7 Series Thermostat
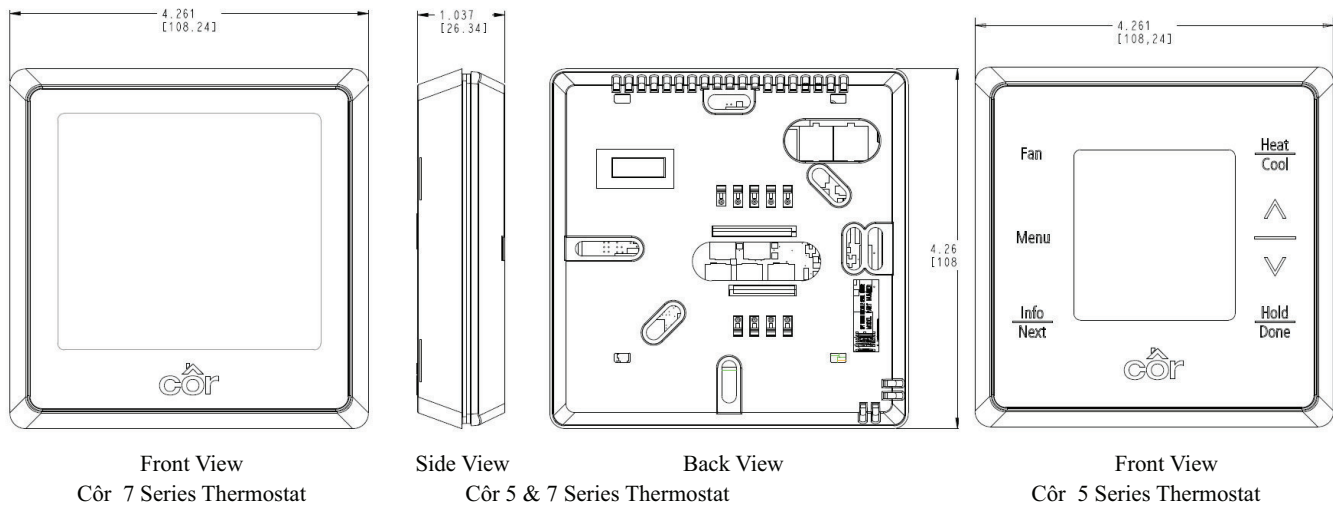
Back View

Front View
Côr 5 Series Thermostat

A170024

Fig. 3 – Côr Series Thermostat

PRODUCT DATA INFORMATION

Physical Characteristics

Dimensions: See drawing

Mounting: Vertical or horizontal J–box provisions

Electrical

Input volts/amps: 24VAC, 3 VA, RC/RH compatible

Environment

Operating temperature/Relative humidity: 32°F (0°C) to 104°F (40°C), 95% RH non-condensing

Storage temperature/Relative humidity: –22°F (–30°C) to 135°F (57°C), 95% RH non-condensing

Wiring Requirements

Standard 18 to 22 gauge, local wiring codes supersede

Accessories

PART NUMBER	DESCRIPTION
TSTATXXSEN01–B*	Outdoor air temperature sensor
TSTATXXCNV01	4–5 wire "add a wire" kit – 1 pk
TSTATECM2W01	Two–Wire relay module (Côr 7 & 7C only)
TSTATCR5TP01	Côr 5 & 5C Trim Plate, 1 pk
TSTATCR7TP01	Côr 7 & 7C Trim Plate, 1 pk
ZONECC0RRS01**	Wired remote room temperature sensor

* The outdoor air temperature sensor must be used with the Two–Wire relay module and with the thermostat in a Hybrid Heat system.

** Requires the Two–Wire relay module

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OPERATIONAL INFORMATION

Heating/Cooling Setpoints

The heating/cooling setpoint range is from 50°F (10°C) to 90°F (32°C). A selectable range of 1-6° is enforced between heating and cooling desired temperatures. This is done by allowing one setting to "push" the other, to maintain this difference. (This difference is adjustable in Installer settings.)

Humidify/Dehumidify Setpoint Range

The humidify setpoint range is from 10% to 44% RH in 2% RH increments. The dehumidify setpoint range is from 46% to 66% RH in 2% RH increments.

Five-minute Compressor Time Guard

This timer prevents the compressor from starting unless it has been off for at least 5 minutes.

Equipment on indicators

When cooling equipment is ON, a COOL icon is displayed. When heating equipment is ON, a HEAT icon is displayed. When auxiliary heating is ON (HP only), an AUX HEAT icon is displayed. When actively heating or cooling there is a corresponding icon above the name on the top of the screen.

Humidify/Dehumidify Ventilator Output Indicators (Côr 7 and Côr 7C)

When the operating mode is heat and the HUM output is energized the "ACC" icon shall be displayed. When the operating mode is cool, the dry contact is configured as a DEHUM or a VENTILATOR output is energized, the "ACC" icon shall be displayed.

Auto Changeover

When Auto Changeover mode is selected, a change from heat to cool (or vice versa) will not occur until an opposite mode demand has existed for 20 minutes. When a setpoint is changed, Auto Changeover timing is ignored to allow the heating/cooling equipment to respond quickly. Auto Changeover mode can be disabled.

Emergency Heat Mode

When the thermostat is controlling a heat pump and emergency heat is selected, all Y signals are locked out, and W becomes energized upon a call for heat.

Smart Setback

With Smart Setback selected during an Away mode, the thermostat will decide how far to setback the temperature and how soon prior to the next period the thermostat will begin recover, based on the history of the recovery times from prior setbacks.

Smart Recovery

With Smart Recovery selected, transition out of setback begins a fixed time period (Off, 30, 60, or 90 minutes selectable) before selected recovery time and gradually adjusts room temperature so that the desired temperature will be achieved at selected recovery time.

Room Temperature Offset

Room temperature may be deliberately offset by up to 5° in either direction.

Programmable Fan (Programmable models)

This selection allows the homeowner to program the fan selection to "Auto" or "Fan On" for each of the program schedule periods.

Wi-Fi Compatibility

The Wi-Fi thermostats are compatible with the 2.4Ghz router channel, not the 5Ghz channel.

The Wi-Fi security is not compatible with:
- WEP
- WPA
- WPA enterprise
- WPA2 enterprise

The Supported Wi-Fi Security includes:
- WPA2
- None (Thermostat security type must be set to OPEN)