

MODEL NO. CH-303 AUTOMATIC CHANGE OVER THERMOSTAT

STANDARD FEATURES

- **BACKLIT LIQUID CRYSTAL DISPLAY (LCD)**
- **PRE-PROGRAMMED AT DCA**
- **THREE LIGHT-EMITTING DIODES (LEDs)**
- **CONFIGURABLE AUXILIARY OUTPUT**

The CH-303 is a non programmable thermostat intended for multistage cooling and heating applications.

The CH-303 provides exceptional temperature control in an easy to use package.

The CH-303 features a unique proportional-integral (PI) control algorithm that virtually eliminates temperature offset associated with traditional differential based thermostats.

BENEFITS

Backlit Liquid crystal display (LCD) - Offers real-time control status of the environment in easy-to-read. English plain text messages with constant backlight that brightens during user interaction.

Simplified Setpoint Adjustment - Enables user to change the setpoint by simply pressing the UP/DOWN arrow keys.

Three light-emitting diodes (LEDs) - Provide fan, heating and cooling status at a glance.

Configurable Auxiliary Output - Provides 24 vac power to the ST-201 humidistat.

IMPORTANT

Use the CH-303 only as an operating control. Where failure or malfunction of these thermostats could lead to personal injury or property damage to the controlled equipment or other property, additional precautions must be designed into the system. Incorporate and maintain other devices such as supervisory or alarm systems or safety or limit controls intended to warn of, or protect against, failure or malfunction of the thermostats.



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TECHNICAL SPECIFICATIONS

CH-303 THERMOSTAT		
POWER REQUIREMENTS		19 TO 30 VAC, 50/60 Hz, 2 VA (TERMINALS 4 AND 5) AT 24 VAC NOMINAL, CLASS 2 OR SAFETY EXTRA-LOW VOLTAGE (SELV)
RELAY CONTACT RATING MAXIMUM INDUCTIVE		30 VAC, 1.0 A MAXIMUM, 3.0 A IN-RUSH
RECOMMENDED WIRE SIZE		18 AWG (1.0 MM DIAMETER) MAXIMUM, 22 AWG (0.6 MM DIAMETER) RECOMMENDED
SENSOR TYPE		LOCAL 10K OHM NTC THERMISTOR
TEMPERATURE RANGE	BACKLIT DISPLAY	-40.0°F/-40.0°C TO 122.0°F/50.0°C IN 0.5 INCREMENTS
	HEATING CONTROL	40.0°F/4.5°C TO 90.0°F/32.0°C
	COOLING CONTROL	54.0°F/12.0°C TO 100.0°F/38.0°C
ACCURACY	TEMPERATURE	±0.9°F/±0.5°C AT 70.0°F/21.0°C TYPICAL CALIBRATED
MINIMUM DEADBAND		2°F/1°C BETWEEN HEATING AND COOLING
AMBIENT CONDITIONS	OPERATING	32 TO 122°F (0 TO 50°C); 95% RH MAXIMUM, NONCONDENSING
	STORAGE	-22 TO 122°F (-30 TO 50°C); 95% RH MAXIMUM, NONCONDENSING
DIMENSIONS (H X W X D)		4.94 X 3.38 X 1.13 IN. (125 X 86 X 29 MM)
COMPLIANCE	UNITED STATES	UL LISTED, FILE 327734, CCN XAPX, UNDER UL 873, TEMPERATURE INDICATING AND REGULATING EQUIPMENT FCC COMPLIANT TO CFR 47, PART 15, SUBPART B, CLASS A
	CANADA	UL LISTED, FILE 327734, CCN XAPX7, UNDER CAN/CSA C22.2 NO. 24, TEMPERATURE INDICATING AND REGULATING EQUIPMENT
	EUROPE	CE MARK, EMC DIRECTIVE 89/336/33C
	AUSTRALIA AND NEW ZEALAND	C-TICK MARK, AUSTRALIA/NZ EMISSIONS COMPLIANT
	SHIPPING WEIGHT	

CH-303 THERMOSTATS FRONT COVER

