INSTALLATION DATA
ETC TWO STAGE ELECTRONIC TEMPERATURE CONTROL

The Ranco® ETC is a microprocessor based family of electronic temperature controls, designed to provide on/off control for commercial heating, cooling, air conditioning and refrigeration. The ETC is equipped with a liquid crystal display (LCD) that provides a constant readout of the sensed temperature, and a touch keypad that allows the user to easily and accurately select the setpoint temperature, differential and heating/cooling mode of the operation. Models are available that operate on either line voltage (120/208/240V AC) or low voltage (24V AC).

APPLICATIONS

With its wide temperature setpoint range and selectable heating or cooling modes, the ETC can be used for a wide variety of applications including multiple compressor control, two stage heating, ventilation control, automatic changeover, condenser fan cycling, space and return air temperature control, water cooled condensers and control with alarm function.

FEATURES

- Wide setpoint temperature range (-30°F to 220°F) and differential adjustment (1°F to 30°F)
- Simple keypad programming of setpoint temperature, differential and cooling/heating modes
- Two individually programmable stages for heating and/or cooling
- LCD display readout of sensor temperature, control settings, relay status and onboard diagnostics
- LED (Light Emitting Diode) backlight to improve visibility of the display in low light ambient applications.
- IP67 rated (water and dust resistant) thermistor-based probe to remotely monitor temperature
- The sensor probe can be retrofitted in the field by the use of factory installed interconnect
- Remote temperature sensing up to 400 feet
- Two SPDT output relays
- User-selectable Fahrenheit/Celsius scales
- Lockout switch to prevent tampering by unauthorized personnel
- Choice of line voltage and low voltage models available
- Optional 0 to 10 volt analog output available for remote temperature indication
- Anti-short Cycle Compressor Delay for cooling applications

SPECIFICATIONS

Input Voltage	120 or 208/240V AC (24V AC optional), 50/60 Hz
Temperature Range	-30°F to 220°F
Differential Range	1°F to 30°F
Switch Action	SPDT
Sensor	Thermistor, 1.94 in. long x 0.25 in. diameter with 8 ft. cable, IP67 rated
Power Consumption	120/208/240V AC: 100 milliamps 24V AC: 2-6V AC

Relay Electrical Ratings

	120V	208/240V
NO Contact		
Full-load amps	9.8 Amps	4.9 Amps
Locked rotor amps	58.8 Amps	29.4 Amps
Resistive amps	9.8 Amps	4.9 Amps
Horsepower	1/2 HP	1/2 HP
NC Contact		
Full-load amps	5.8 Amps	2.9 Amps
Locked rotor amps	34.8 Amps	17.4 Amps
Resistive amps	5.8 Amps	2.9 Amps
Horsepower	1/4 HP	1/4 HP

Pilot Duty: 125 VA at 120/208/240 VAC

Control Ambient Temperature	
Operating	-20°F to 140°F (-29°C to 60°C)
Storage	-40°F to 176°F (-40°C to 80°C)
Ambient Humidity	0 to 95%, RH, Non-condensing
0 to 10V Output Impedance	1 K
Enclosure	NEMA 1, Plastic
Agency Approvals	UL Listed, File E94419, Guide XAPX CSA Certified, File LR68340, Class 4813-02

ETC ORDERING INFORMATION

Uni-Line Numbers	OEM Numbers	Input Voltage	No. of Stages	0 - 10 V Output
ETC-211000-000	ETC-211020-000	120/240	2	No
ETC-211100-000	ETC-211120-000	120/240	2	Yes
ETC-212000-000	ETC-212020-000	24	2	No
ETC-212100-000	ETC-212120-000	24	2	Yes

OPERATION

Liquid Crystal Display (LCD)

The LCD display provides a constant readout of the sensor temperature and indicates if either of the two output relays is energized. When the **S1** annunciator is constantly illuminated during operation, the Stage 1 relay is energized. Likewise, when the **S2** annunciator is constantly illuminated during operation, the Stage 2 relay is energized. The display is also used with the keypad to allow the user to adjust the setpoint temperatures, differentials and heating/cooling modes for each stage.

Backlight

When any mode key is pressed, the backlight is activated and the ETC is in control mode. Press the SET key to begin program mode.

Control Setup

The temperature setpoint refers to the temperature at which the normally open (NO) contacts of the output relay will open. Determine the loads to be controlled and the operating modes required for each stage, cooling or heating.

- When the cooling mode is chosen, the differential is above the setpoint. The relay will de-energize as the temperature falls to the setpoint.
- Anti-short Cycle Compressor Delay for cooling. After a relay de-energizes, the ETC will prevent the relay from turning on until a configurable time has occurred to protect compressor.
- When the heating mode is chosen, the differential is below the setpoint. The relay will de-energize as the temperature rises to the setpoint.

The ETC two stage control can be set up for two stages of heating, two stages of cooling or one stage cooling plus one stage heating. Refer to Figures 1, 2 and 3 for a visual representations of different control setups.

Ranco Temperature Controller Manual

JA Banks

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