

FREEZEPRO[®]

Frost Protection Systems

RANCO ETC SINGLE STAGE TEMPERATURE CONTROL- NEMA TYPE 4X

The Ranco ETC is a microprocessor-based electronic temperature control designed to provide on/off control for commercial heating, ventilating, 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 set point temperature, differential and heating/cooling mode of operation. The ETC NEMA Type 4X control can accept either 120 or 208/240 VAC input power.



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.
- LCD readout of sensor temperature, control settings, relay status and onboard diagnostics.
- Remote temperature sensing up to 400 feet.
- SPDT output relay.
- User selectable Fahrenheit/Celsius scales.
- Lockout switch to prevent tampering by unauthorized personnel.
- NEMA Type 4X enclosure rated watertight for outdoor applications.
- Designed to meet Article 547 of the National Electrical Code for use in agricultural buildings.





Applications:

All ETC NEMA Type 4X controls have enclosures rated watertight for outdoor use. With its wide temperature setpoint range and selectable heating and cooling modes, the ETC can be used for a wide variety of applications including bulk milk coolers, refrigerated storage, cooling towers, unit heaters, ventilation fan cycling and trace heating. In addition, the ETC NEMA Type 4X control is designed to meet the requirements of Article 547 of the National Electric Code for use in agricultural buildings such as poultry houses and livestock barns.

Specifications:

- **Temperature Set Point Range:** -30°F to 220°F
- **Differential Range:** 1°F to 30°F
- **Input Voltage:** 120VAC, 208, 240VAC
- **Pilot Duty:** 125VA at 120/208/240VAC
- **Sensor:** Thermistor, 2" long x 1/4" dia with 8' cable (included)
- **Control Ambient Temperatures:**
 - **Operating:** -20°F to 140°F
 - **Storage:** -40°F to 176°F
- **Ambient Humidity:** 0 to 95% RH, non-condensing
- **Enclosure:** NEMA 4
- **Dimensions:** 7.84" high x 2.7" wide x 2.48" deep
- **Agency Approvals:** UL listed, file E94419, Guide XAPX, CSA certified, file LR68340, class 4813 02

Relay Output Ratings - NO (NC)	120V	208/240V
Full load amps	16 (5.8) A	8 (2.9) A
Locked rotor amps	96 (34.8) A	48 (17.4) A
Resistive amps	15 (5.8) A	8 (2.9) A
Horsepower	1 (1/4) HP	1 (1/4) HP