



16E09-101

ELECTRONIC TEMPERATURE CONTROL

Superior Temperature Control and Accuracy for Both Refrigeration and Heating Applications

FEATURES

- Multiple Input Voltages (24/120/208/240 volts).
- No common wire required (electrical load must be greater than 2.5 amps and uninterrupted).
- Electronic temperature accuracy/digital display.
- Alarm output (with selectable delay - up to 99 minutes).
- Adjustable anti-short cycle delay.
- Setpoint locking function.
- Reduces inventory - replaces most competitive mechanical and electronic refrigeration controls.
- Multiple sensor option can be used with 1 or 4 sensors.

SPECIFICATIONS

Electrical Rating (Contacts):

*Voltage	120 VAC	208VAC	240 VAC
*Full Load Amps	16 Amps	9.2 Amps	8 Amps
*Locked Rotor Amps	96 Amps	55.2 Amps	48 Amps
*Non-inductive Amps	16 Amps	16 Amps	16 Amps
*Horsepower	1 HP	1 HP	1 HP

*24 VAC 100 VA, 30 VAC Max. (Class 2)

*Pilot Duty 125 VA, 24 to 240 VAC

*Minimum Load 1 Amp @ 24 VAC

Alarm Relay (N.O. Contacts) 1 Amp (5 to 24 volts AC or DC)

Setpoint Range -40° to 220°F (-40° to 104° C)

Differential Range 1° to 30°F (1° to 30° C)

Operating Temperature -29°F to 140°F (-34° to 60°C)

Storage Temperature -40°F to 185° (-40° to 85°F)

Operating Humidity 0 to 95% Relative Humidity, Non-Condensing

Maximum Dew Point 85°F (29°C)

Switch Action SPDT

NCT sensor, with a cable length of 7.5 can be extended up to 400 feet by

splicing and adding cable wire (22 AWG or larger diameter) as needed.

Can be connected to an existing PTC (positive temperature coefficient) sensor.

Finish Grey

Cover and Case NEMA 1 enclosure

Flammability Rating UL94VO

Dimension 6³/₄" H x 3" W x 2⁹/₁₆" D"

* For use on single phase circuits only

Model Number	Range	Differential	Switch Action
16E09-101	-40° to 220°F	1° to 30°F	SPDT

PARTS AND ACCESSORIES See end of this section for additional parts and accessories

- F136-0114 — Replacement 7.5-ft NTC remote sensor



TECHNICAL HELP

Wiring and Operation See pages 199–200