We Manage Heat®

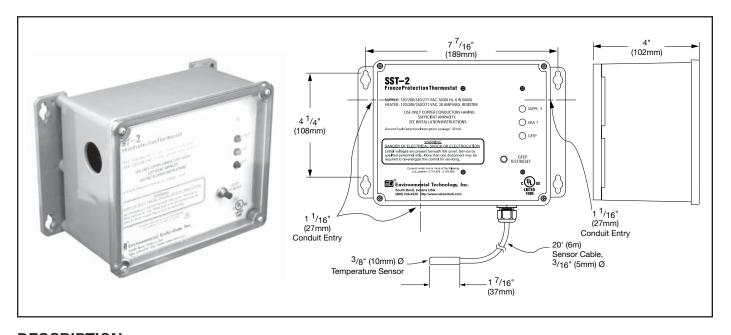
Electronic Thermostat with Ground Fault Equipment Protection

MODEL SST™-2 FREEZE PROTECTION THERMOSTAT

FEATURES & BENEFITS

- Automatic freeze protection
- 40°F (4.4°C) set point
- Automatic supply voltage selection
- Two-pole contactor switches up to 30 AMP heater loads
- · Alarm relay with isolated contact

- Integral 30 mA GFEP
- C-UL-US listed
- · Simple to install and operate
- Minimum energy costs



DESCRIPTION

The C-UL-US listed SST-2
Freeze Protection Thermostat replace
electromechanical thermostats in costsensitive applications requiring ground
fault equipment protection (GFEP).
The SST-2 is listed by Underwriters
Laboratories to Standard UL 873 for
Temperature-Indicating and -Regulating
Equipment.

The SST–2 operates heaters at temperatures below 40°F (4.4°C) and turn them off above 42°F (5.5°C). The external temperature sensor (supplied) is a NEC Class 2 device rated for wet locations.

The SST-2 features a built-in 30 mA GFEP that is digitally filtered to minimize false tripping. A ground fault

must be manually reset with the TEST/RESET switch before heater operation can be resumed. The GFEP function is automatically tested along with the heaters whenever power is applied and once every 24 hours thereafter for additional safety.

The SST–2 includes an alarm relay with an isolated SPDT 1 AMP contact. The alarm relay is reverse acting and is normally energized unless there is a ground fault condition, GFEP circuitry fails a test, or when there is a bad temperature sensor.

The SST–2 Freeze Protection Thermostat operates from automatically selected operating voltages of 120, 208, 240 or 277 volts, single-phase. They control heater loads of up to 30 amps while consuming less than 2 watts when idling. The temperature sensor is an NEC Class 2 device that can be located up to 2,000' (610 m) away from the SST. They operate in non-hazardous environments in a temperature range extending from -40° to 130° F (-40° to 55° C). The rugged non-metallic enclosure is appropriate for installation in indoor or outdoor locations suitable for NEMA 4x applications.

For complete information describing its application, installation and features, please contact Customer Service or check on the web at www.networketi.com.

SPECIFICATIONS

General

Area of use Nonhazardous locations **Approvals**

LISTED 109R

Type 873 Temperature Regulating Equipment

Enclosure

Protection NEMA 4x

Cover attachment Polycarbonate cover, machine screws

 $1 \times 3/4$ " entry (bottom right) for NEC Class 2 connections **Entries**

 $3 \times 1-1/16$ " entries (bottom left and left) for supply and load power

Material Polycarbonate Mounting Wall mounted

Front Panel Interface

Status indicator SUPPLY (green) power applied

SUPPLY (green, flashing) bad thermistor

HEAT (yellow) call for heat GFEP (red) ground fault condition GFEP (red. flashing) failed GFEP test

GFEP (red, flashing, rapid) GFEP test in progress

Remote Interface

Isolated SPDT 1 AMP Class 2 contact Alarm relay

Summary alarms No Power

Ground Fault Condition GFEP function test failure Bad or missing Thermistor

Control

Supply voltage 120, 208, 240 or 277 volts, single phase (automatically selected)

Contact type Two Form A DPST Voltage: 277 VAC Maximum ratings Current: 30 amps

Temperature Sensor

Set point 40°F (4.4°C) Dead band 2°F (1°C)

Sensor type Thermistor network

Circuit type NEC Class 2

Lead length Up to 2,000' (610m) using 12 AWG 2-wire jacketed cable Up to 500' (152m) using 18 AWG 2-wire jacketed cable

Ground Fault Equipment Protection (GFEP)

30 mA Set point

Automatic self test Mode A: Verifies GFEP function before contactors operate

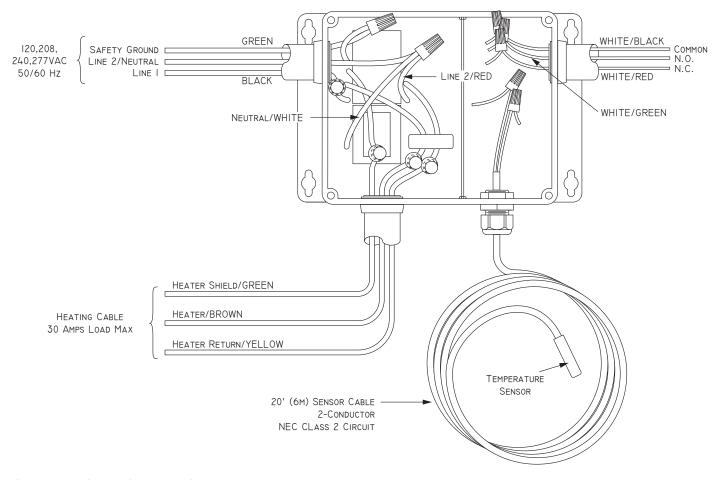
Mode B: Verifies GFEP function every 24 hours

Manual test/reset TEST/RESET switch of front panel

Environmental

Operating temperature -40°F to 130°F (-40°C to 55°C) -67°F to 167°F (-55°C to 75°C) Storage temperature

INSTALLATION



ORDERING INFORMATION

Order Number	Description
22744	Model SST–2 Freeze Protection Thermostat
19272	Temperature Sensor (included)

LIMITED WARRANTY

ETI's two year limited warranty covering defects in workmanship and materials applies. Contact Customer Service for complete warranty information.

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