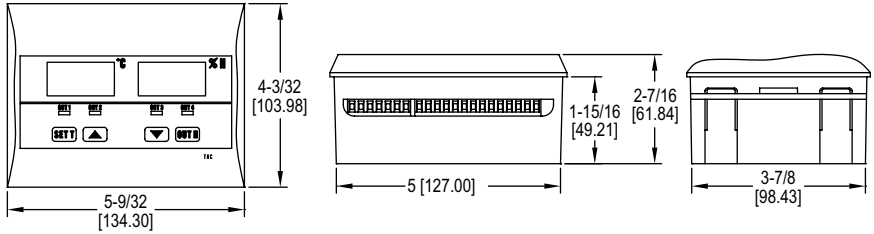
SERIES THC

TEMPERATURE/HUMIDITY SWITCH

Independent Displays, 61 Programmable Parameters, 4 SPST Relays





The **Series THC Temperature/Humidity Switch** simultaneously measures and controls temperature and humidity. The unit offers a 3-digit red display for temperature indication and a 3-digit green display indicating humidity. The Series THC is equipped with four independent relays, two for temperature control and two relays for humidity control.

The THC Temperature/Humidity Switch accepts up to two temperature probe inputs (sold separately) and a humidity sensor. A humidity sensor with 0-1 V, 3 V (THC-P sold separately), or 4-20 mA output can be used with the Series THC.

BENEFITS/FEATURES

- Temperature and humidity control in one device
- Password protected parameter settings
- Selectable fail safe status of relay outputs

APPLICATIONS

- Isolation chambers
- Environmental chambers
- Greenhouses
- Beer and wine chillers

SPECIFICATIONS

Measurement Range: Temperature: -58 to 302°F (-50 to 150°C); Humidity: 0 to 100% RH.
Input: Up to 2 thermistors and 1 humidity sensor.
Output: 4 SPST, 8 A relays @ 250 VAC.
Horsepower Rating (HP): 1/3 HP.
Control Type: ON/OFF direction, direct or reverse acting, neutral.
Power Requirements: 110 or 230 VAC (depending on model).
Accuracy: Temperature ±0.5% of probe range; Humidity: 20 to 90%.
Display: Two 3-digit displays. 1/2″ digits.
Resolution: 0.1°.
Memory Backup: Nonvolatile memory.
Ambient Operating Temperature: 32 to 158°F (0 to 70°C).
Storage Temperature: -4 to 176°F (-20 to 80°C).
Panel Cutout: 5.15″ x 3.97″ (131 x 101 mm).
Front Panel Protection: IP64.
Weight: 1.17 lb (530 g).
Compliance: CE.

MODEL CHART

Model	Supply Power	Unit
THC-30	20-250 VAC, 24 VDC	°F
THC-31	20-250 VAC, 24 VDC	°C

ACCESSORIES

Model	Description
THC-P	Humidity probe, 3 V output, 4 ft (1.2 m) cable
TS-5	Temperature probe, PVC with 5 ft (1.5 m) cable
TS-6	Temperature probe, metal with 5 ft (1.5 m) cable
TS-51	Temperature probe, PVC with 10 ft (3 m) cable
TS-61	Temperature probe, metal with 10 ft (3 m) cable