

T6950/T6951/T6960/T6961 SINGLE-STAGE FROST PROTECTION THERMOSTATS

SPECIFICATION DATA & MOUNTING INSTRUCTIONS



FEATURES

- Gas-filled copper sensor element with 1.8 m bulb length or 3 m / 6 m coil length
- Dust-tight (Honeywell) micro switch with switching contacts (heat/cool)
- Protection class I (T6950/51) according to EN60335-1, IP54 according to EN60529
- Easy installation and wiring
- Manual reset (T6950/60), automatic reset (T6951/61)
- °C and °F scale
- Fast mounting and installation

SPECIFICATION

Switching capacity	24...250 Vac; 15(8) A
Humidity	0...95% rh, non-condensing
Adjustable temp. range	-10...+12 °C (+14...+54 °F)
Storage temperature	-30...+90 °C
Operating temperature	-20...+80 °C
Maximum overload temperature (1h max.)	150 °C
Hysteresis	1 K (typical)
Wiring terminals	Screw terminal block for wires up to 1.5 mm ²
Cable entry	M20x1.5, for Ø 6...13 mm
Housing material	polycarbonate and polyamide
Weights	approx. 450 g
Dimensions	130 x 130 x 70 mm

GENERAL

These Single-Stage Thermostats feature an antifreeze function and are designed for systems in which the temperature must not drop below a certain fixed safety value such as:

- Reheaters in air conditioning systems
- Heat exchanger in cooling systems

Models

order number	protection standard	bulb length (in m)	reset
T6950A1000 T6950A1018 T6950A1026	IP54	1.8 3.0 6.0	manual
T6951A1009 T6951A1017 T6951A1025	IP54	1.8 3.0 6.0	automatic
T6960A1008 T6960A1016 T6960A1024	IP65	1.8 3.0 6.0	manual
T6961A1007 T6961A1015 T6961A1023	IP65	1.8 3.0 6.0	automatic

MOUNTING AND SETTING

The switching temperature can be set by an adjustment screw on top of the housing. The room temperature at the thermostat body should not drop below the setting point.

Recommended mounting position is vertical with cable entry on bottom side. For mounting, use the screws (included in the package) and mount the device without opening the housing.

For wiring, remove the cover and proceed as shown in Fig. 2.

During the unwinding operation, the capillary tube must be held by the anti-kink device on the diaphragm pot. **Maintain a radius of curvature of at least 20 mm.**

To ensure reliable switching, the capillary tubes (3 m and 6 m) must be cooled along a length of at least 40 cm.

DIMENSIONS

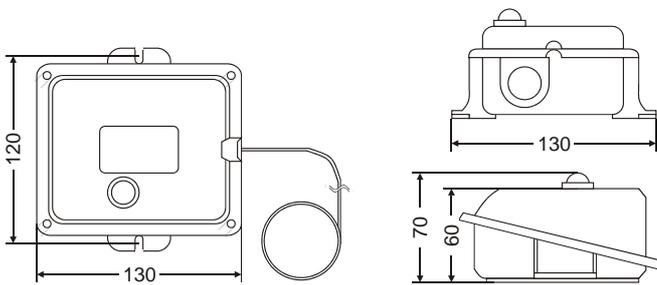


Fig. 1. Dimensions in mm

WARNING

All operations performed on the unit, whether wiring, testing, or maintenance, must be done without power supply on the unit and external loads. Such operations are permitted only by skilled workers.

Honeywell is not liable for possible damages caused by an inadequate installation and/or by removed or exchanged security devices.

To guarantee the sealed protection on the unit, turn the cover screws and close the grommet.

WIRING

Field Wiring

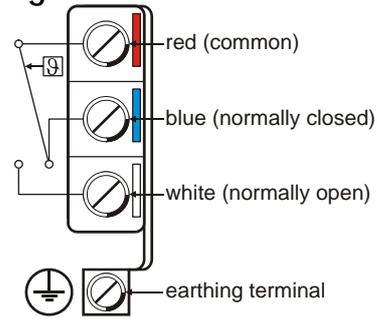


Fig. 2. Field wiring

Heating: Connect red to blue; the contact will open when the temperature rises.

Cooling: Connect red to white; the contact will open when the temperature drops.

Signal function: For service functions, connect a signal lamp to the corresponding opposite contact. The free contact will then close simultaneously (thus acting as a signal contact).

Reset Function

T6950A/T6960A are manual reset types. The switching contact is moved back by pressing a button on the front side (service personal, only).

T6951A/T6961A are automatic reset types. The switching contact moves back to its normal position if the temperature moves to normal range.

ACCESSORIES

Included in package: 6 pcs fastening clamps for 3 m and 6 m bulb length, 3 pcs for 1.8 m bulb length.

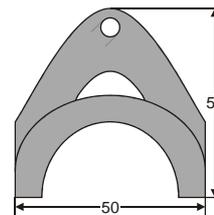


Fig. 3. Fastening clamp, dimensions in mm

Honeywell

FEMA

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