

Provide proportional control of pneumatic valves and damper actuators to maintain room air temperatures in HVAC systems.

- Models available for heating, cooling, heating/cooling, dead-band, day/night or summer/winter applications.
- Horizontal or vertical mounting determined by scaleplate.
- Choice of ABS plastic or metal window or blank covers.
- Throttling range adjustable 3°F to 12°F (1.7°C to 6.7°C).
- Pilot operated bleed relay for accuracy and stability.



Shown with Scaleplates and Window Covers

SETPOINT RANGE: 55°F to 85°F (13°C to 29°C).

THROTTLING RANGE:

Field Adjustable: 3°F to 12°F (1.7°C to 6.7°C).

Factory Setting: 3°F (1.7°C).

FACTORY CALIBRATION: 9 psig (62 kPa) branch pressure.

DEAD-BAND PRESSURE (CTC-1630 Series): 8 psig (55 kPa), field adjustable.

MAIN AIR PRESSURE: 20 psig (138 kPa) operating;
30 psig (207 kPa) maximum.

AIR CAPACITY: 200 scim (55 mL/s).

AIR CONSUMPTION: 20 scim (5.5 mL/s).

MOUNTING: Horizontal or vertical, determined by scaleplate.

AIR CONNECTIONS: For 5/32"OD (4mm) plastic tubing.

OPERATING AMBIENT: 40°F to 120°F (4°C to 49°C).

MATERIAL: Black ABS thermostat module.

DIMENSIONS (With Cover): 2.2" x 3.44" x 1.9"D (56 x 87 x 48mm).

ACCESSORIES (Complete listing on page 16-2):

HFO-0010 Restrictor tee for one-pipe thermostats.

HFO-0027 Setpoint stops (strip of 4 stops).

HPO-15xx Covers (choice of window or blank covers).

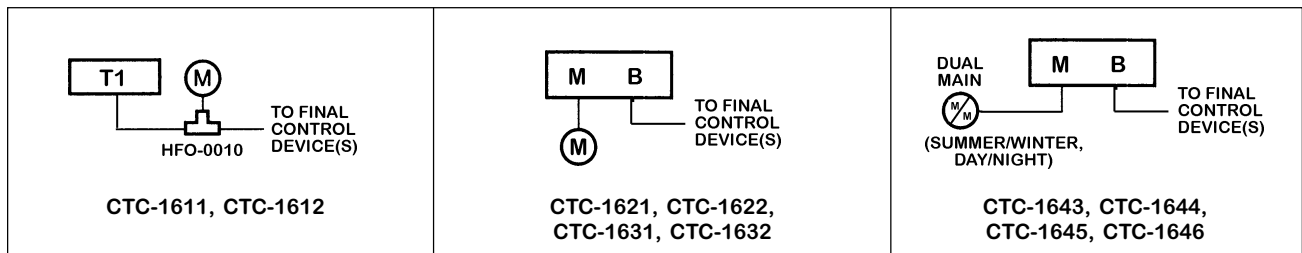
HPO-00xx Scaleplates (choice of °F, °C, horizontal or vertical).

HMO-50xx Backplates for mounting to 2x4 electrical box.

HMO-5023 Drywall mounting kit for hollow wall mounting.

HFO-0028 Tygothane tubing kit.

TYPICAL APPLICATIONS



THERMOSTAT MODULES ONLY (SEE PAGE 16-2 FOR COVERS, SCALEPLATES & MOUNTING HARDWARE)

Model	Type	Thermostat Action	Comments
CTC-1611	one-pipe, single temperature	DA	requires HFO-0010 restrictor tee and constant air source
CTC-1612		RA	
CTC-1621	two-pipe, single temperature	DA	also available packaged with accessories (see page 16-3)
CTC-1622		RA	
CTC-1631	two-pipe, dual temperature, dead-band	DA	no energy used within temperature span between heating & cooling setpoints
CTC-1632		RA	
CTC-1643	two-pipe, dual temperature, change-over	DA @ 16 psi; DA @ 25 psi	for day/night, summer/winter, or other changeover applications; remote indexing is by dual main air supply pressure; controls at higher setpoint when main air supply is at lower pressure; controls at lower setpoint when main air supply is at higher pressure
CTC-1643-23		DA @ 13 psi; DA @ 18 psi	
CTC-1643-25		DA @ 15 psi; DA @ 22 psi	
CTC-1644		RA @ 16 psi; RA @ 25 psi	
CTC-1644-23		RA @ 13 psi; RA @ 18 psi	
CTC-1644-25		RA @ 15 psi; RA @ 22 psi	
CTC-1645		RA @ 16 psi; DA @ 25 psi	
CTC-1645-23		RA @ 13 psi; DA @ 18 psi	
CTC-1645-25		RA @ 15 psi; DA @ 22 psi	
CTC-1646		DA @ 16 psi; RA @ 25 psi	
CTC-1646-23		DA @ 13 psi; RA @ 18 psi	
CTC-1646-25		DA @ 15 psi; RA @ 22 psi	