CTC-1611/1612

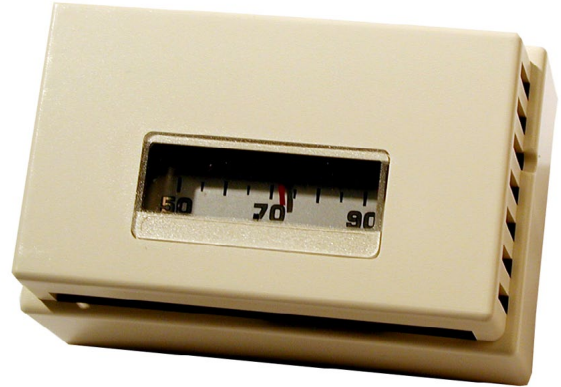## One-Pipe, Pneumatic, Room Thermostats

Description and Application

These single-setpoint, one-pipe thermostats are designed for proportional control of pneumatic valve and damper actuators used in HVAC systems. A highly sensitive bimetal element with feedback is used for accuracy and stability.

Models are available for direct or reverse acting proportional action. The throttling range is factory set and field adjustable. Setpoints are adjusted using sliders which can be locked or limited using setpoint stops (HFO-0027).

The thermostats require a scale plate assembly, cover, and an external 14.4 scim restrictor in the supply line. See the Accessories section for a variety of options.

Still…Made in the U.S.A.

(Shown with Horizontal Scale Plate and Light Almond Cover Installed)

Features

♦ Sensitive bimetal element provides consistent, accurate feedback

♦ Direct or reverse acting proportional control of valve or damper actuators (see the Models section)

♦ Field-adjustable throttling range

Models

CTC-1611	Direct acting
CTC-1612	Reverse acting

Specifications

Setpoint Range	55 to 85° F (13 to 29° C)
Throttling Range	3° to 12° F (1.7° to 6.7° C) factory set @ 3° F, field adjustable up to 12° F
Calibration	9 psi (62 kPa) branch pressure
Air	
Supply Pressure	20 psi (138 kPa), 30 psi (207 kPa) maximum, supplied through a 14.4 scim (3.9 mL/s) restrictor sold separately
Output Capacity	14.4 scim or less when using a proper restrictor
Consumption	14.4 scim or less when using proper restrictor
Material	Black flame-retardant plastic
Weight	3 oz. (85 grams)
Temperature Limits	
Operating	40° to 120° F (4° to 49° C)
Shipping	−40° to 140° F (−40° to 60° C)

Accessories

Backplate kit (allows thermostat to be mounted to 2x4 handy box, includes 2 #6-32 screws and decorative matching 2.75 x 4.5" plate):

HMO-5024   Light almond w/ aluminum trim
HMO-5026   White w/ aluminum trim
HMO-5030   Light almond
HMO-5031   White

Thermostat **scale plates** (includes 2 each HPO-0046 scale plate pins):

HPO-0047-10   ° F, horizontal
HPO-0048-10   ° F, vertical
HPO-0049-11   ° C, horizontal
HPO-0050-11   ° C, vertical

Thermostat **covers, blank**:

HPO-1501   Light almond ABS plastic
HPO-1502   White ABS plastic
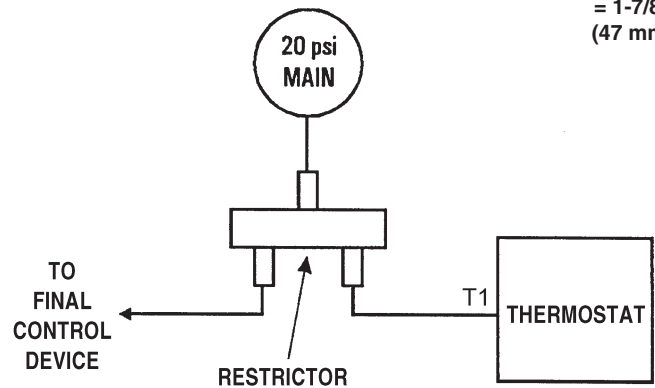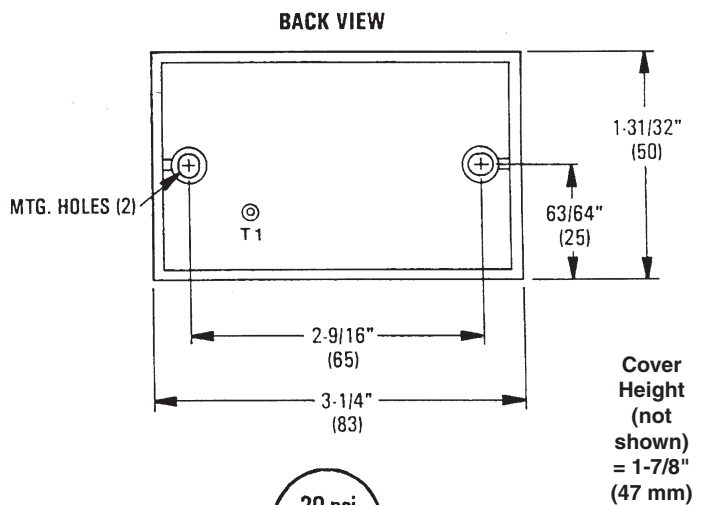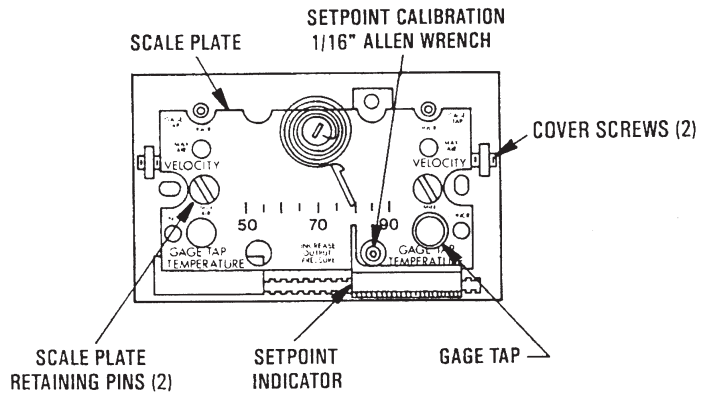HPO-1503   Brushed aluminum

Thermostat **covers, full window**:

HPO-1511   Light almond ABS plastic
HPO-1512   White ABS plastic
HPO-1513   Brushed aluminum
HPO-1514   White metal
HPO-1516   Light almond metal

Miscellaneous accessories:

HFO-0027   Setpoint stop strip, 4 "stops" per strip
HFO-0028   Tubing kit, 3/32" ID
HMO-5023   Mounting strap for mounting on hollow walls, includes 2 #6-32 x 2" screws and "template" printed on envelope
HPO-0044   Replacement thermostat cover screws
HPO-0046   Replacement scale plate pins
HPO-0051   Replacement cover window for thermostat (1 furnished with each cover)
HPO-1320   Replacement label strip (1 furnished with each cover), 3 labels per strip (for day/night, summer/winter or heating/cooling indication)

Dimensions and Details

All dimension are in inches (mm)

⚠ CAUTION

Pneumatic devices must be supplied with clean, dry control air. Any other medium (e.g., oil or moisture contamination) will cause the device to fail.

KMC Controls, Inc.

19476 Industrial Drive, New Paris, IN 46553

574.831.5250

www.kmccontrols.com; info@kmccontrols.com