

Description

The CTC-1640 Series thermostats provide proportional control of pneumatic valve and damper actuators in two-temperature (day/night, summer/winter) HVAC systems. Two highly sensitive bimetal elements, with feedback, and a pilot bleed relay provide stability and accuracy.

Remote indexing in the CTC-1640 Series is provided by dual main air supply levels. The first temperature control occurs when the main air supply pressure is 16 psig. The second temperature control is tripped when the main air pressure is 25 psig.

Models are available with either direct or reverse proportional action. The CTC's throttling range is factory set and field adjustable. Setpoints are adjusted using sliders that can be locked or limited using setpoint stops (HFO-0027). A variety of optional scale plates and covers are available for both models.

Features

- ◆ Dual main air levels provide remote indexing between two temperature settings
- ◆ Sensitive bimetal element and pilot bleed relay provide consistent, accurate feedback
- ◆ Available in direct or reverse acting models
- ◆ Field adjustable throttling range

Models

CTC-1643	Direct acting at upper 16 psig and lower 25 psig setpoint
CTC-1644	Reverse acting at upper 16 psig and lower 25 psig setpoint
CTC-1645	Reverse acting at upper 16 psig setpoint, direct acting at lower 25 psig setpoint
CTC-1646	Direct acting at upper 16 psig setpoint, reverse acting at lower 25 psig setpoint



Special dual main models are also available. Indicate these models by adding a suffix:

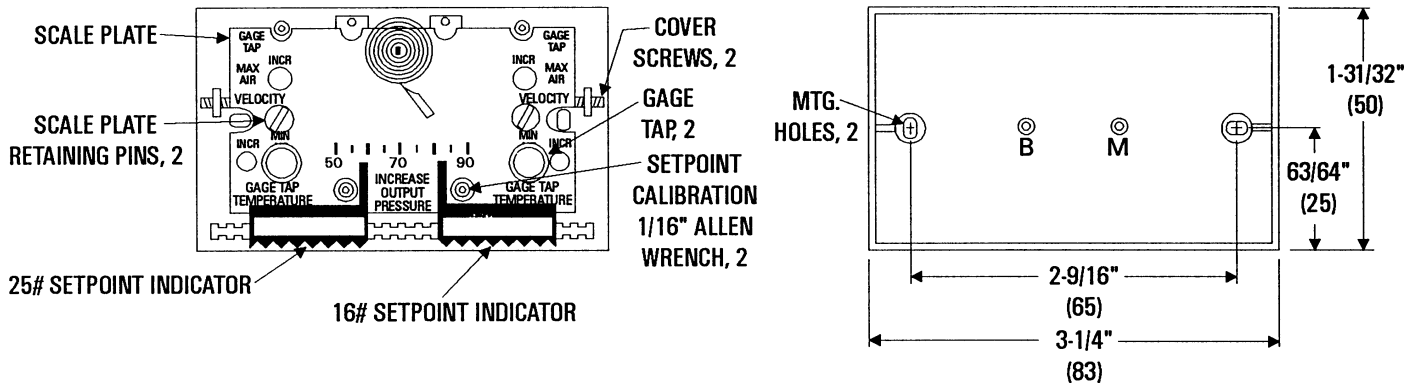
CTC-164X-23	Upper setpoint is 13 psig, and lower setpoint is 18 psig
CTC-164X-25	Upper setpoint is 15 psig, and lower setpoint is 22 psig.

Accessories

HFO-0027	Setpoint stops
HFO-0028	Tubing kit; 3/32" ID
HMO-5023	Drywall mounting kit
HMO-5024	2" x 4" almond backplate w/ aluminum trim
HMO-5026	2" x 4" white backplate w/ aluminum trim
HMO-5030	2" x 4" almond backplate w/ matching trim
HMO-5031	2" x 4" white backplate w/ matching trim
HPO-0047-10	°F Horizontal scale plate
HPO-0048-10	°F Vertical scale plate
HPO-0049-11	°C Horizontal scale plate
HPO-0050-11	°C Vertical scale plate
HPO-1320	Label strip
HPO-1501	Blank; almond color
HPO-1502	Blank; white color
HPO-1511	Window; almond color
HPO-1512	Window; white color
HPO-1503	Blank; brushed aluminum finish

Details

All dimensions in inches (mm).



Accessories

HPO-1504	Blank; painted white
HPO-1505	Blank; brushed brass finish
HPO-1506	Blank; painted almond
HPO-1513	Window; brushed aluminum finish
HPO-1514	Window; painted white
HPO-1515	Window; brushed brass finish
HPO-1516	Window; painted almond

Specifications

Setpoint Range	55° to 85° F (13° to 29°)
Throttling Range	3° to 12° F (1.7° to 6.7° C) factory set @ 3° F, field adjustable up to 12° F for both bimetals
Calibration	9 psig (62 kPa), branch pressure
Indexing	Remote via change in main air supply pressure; right-horizontal/ top-vertical @ 16 psig (110 kPa) ±1 psig (6.9 kPa); left-horizontal/ bottom-vertical @ 25 psig (173 kPa) ±1 psig
Air	
Supply Pressure	16/25 psig (119/173 kPa); 30 psig (207 kPa) maximum
Capacity	200 scim (55 mL/s)
Consumption	20 scim (5.5 mL/s)

Material	Black ABS
Weight	4 oz. (113 grams)
Temperature Limits	
Operating	40° to 120° F (4° to 49° C)
Shipping	-40° to 140° F (-40° to 60° C)

!CAUTION

Pneumatic devices MUST operate with CLEAN, DRY, control air. Any other medium will result in the device's eventual failure.

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