

CTE-5006/5016 Series

Room Thermostat, DA Cooling w/ Reheat, Auxiliary, and Adjustable Deadband

Description and Application

These thermostats are designed to be used with CSP-5001/5002 VAV controller-actuators for controlling dampers and/or valves in HVAC systems. The CTE-5006/5016 series are single setpoint thermostats providing dual 0–10 VDC outputs for Direct Acting (DA) cooling with adjustable min/max limits, auxiliary control point, and Reverse Acting (RA) heating with adjustable deadband. Mounting methods include using electrical boxes, toggle bolts, or backplates.

These inexpensive thermostats provide precise control, while offering the opportunity to adjust control points at the thermostat rather than at the controller-actuator. The deadband, minimum, maximum, and auxiliary flow limits can be adjusted from the thermostat. The setpoint adjustment and indication are on the top of the cover and can be hidden by installing the optional setpoint cover.

Models

CTE-5006-11	White, °C
CTE-5016-10	Light almond, °F
CTE-5016-11	Light almond, °C

Accessories

HMO-5001	Dual toggle bolt for backplate mounting to drywall
HMO-5014	Insulating stand-off, light almond
HMO-5016	Insulating stand-off, white
HMO-5036	Adapter backplate to vertical handy box, light almond
HMO-5037	Adapter, vertical, white
HMO-5038	Adapter backplate to horizontal handy box, white
HMO-5039	Adapter, horizontal, light almond
HPO-0031	Setpoint cover, white
HPO-0032	Setpoint cover, light almond
XEE-5002	Power supply, 24 VAC to 16 VDC

For more accessories, see the Thermostats section of the Electronic and Pneumatic Condensed Catalog.



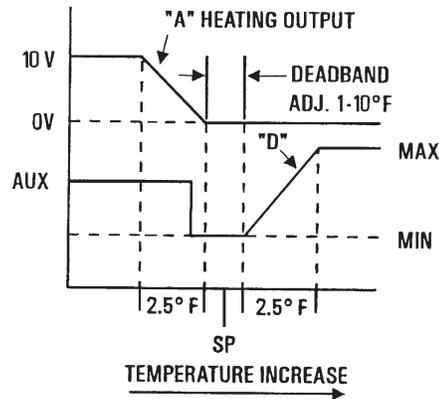
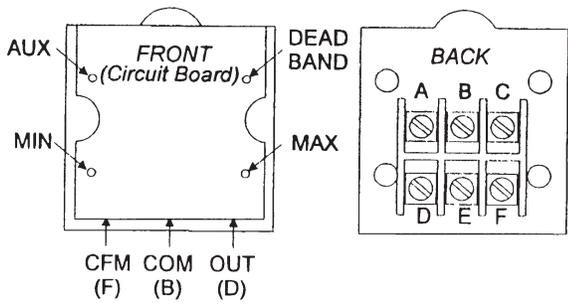
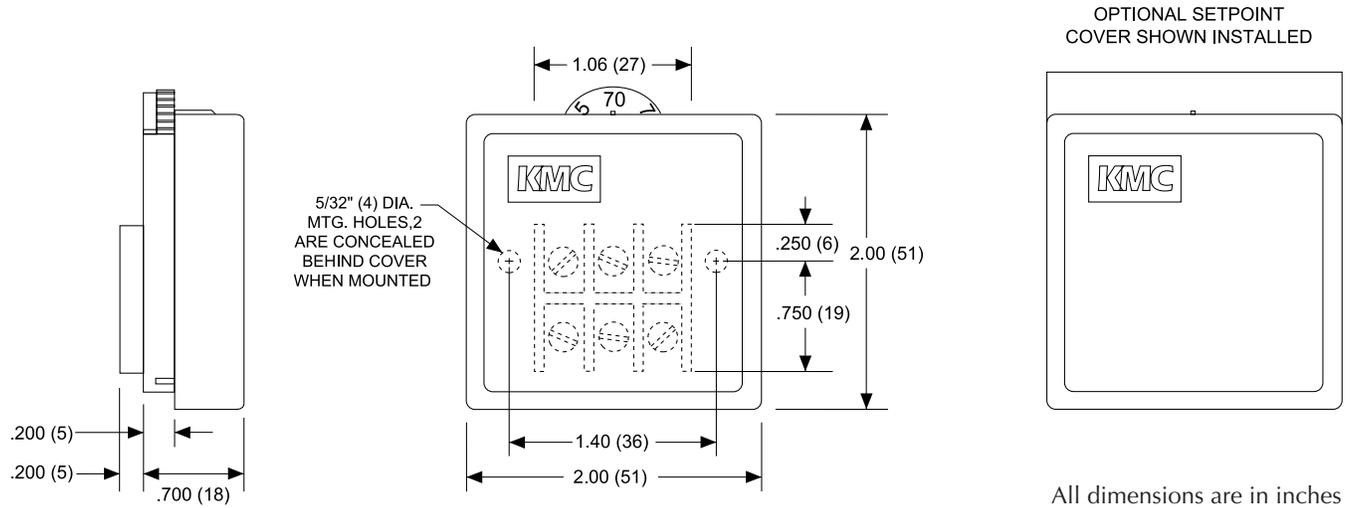
Features

- ◆ Operates from **16 VDC** supplied voltage (for thermostats using 9.1 VDC, see the CTE-5002/5012)
- ◆ Dual **0–10 VDC** outputs for DA cooling and RA heating (for dual 0–7 VDC outputs, see the CTE-5002/5012)
- ◆ Precise control from the thermostat via the setpoint dial as well as deadband, auxiliary, minimum, and maximum pots on the circuit board (accessed by removing the front cover)
- ◆ CFM and Cooling Output voltage test points accessed by removing the front cover

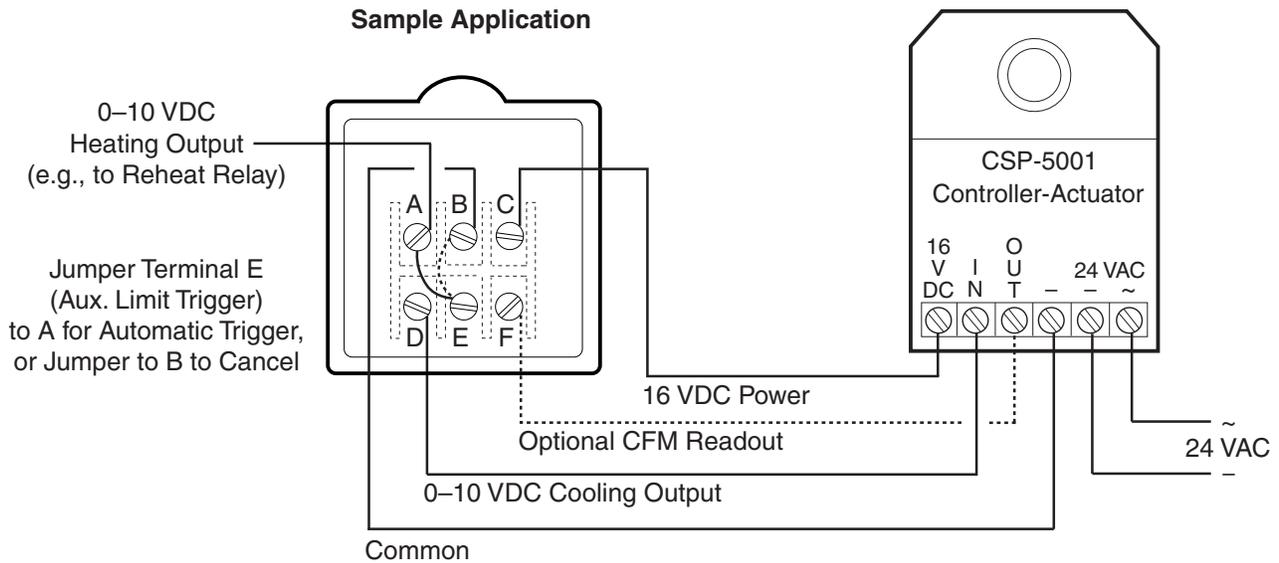
Specifications

Supply Voltage	16 VDC, ±5%
Output Range	0 to 10 VDC (both outputs)
Temperature Range	54 to 90° F (12 to 32° C)
Deadband Adjust.	1 to 10° F (0.56 to 5.6° C)
Proportional Band	2.5° F (1.4° C)
Thermostat Action	
Cooling	Direct Acting (DA)
Heating	Reverse Acting (RA)
Material	White or light almond flame-retardant plastic
Size	2" (51 mm) square
Weight	1.25 oz. (35 grams)
Temperature Limits	
Operating	40 to 120° F (4 to 49° C)
Shipping	–40 to 140° F (–40 to 60° C)

Dimensions and Connectors



Sample Application



KMC Controls, Inc.

19476 Industrial Drive, New Paris, IN 46553

574.831.5250

www.kmcccontrols.com; info@kmcccontrols.com