



PTC-4100 Series & PTC-4200 Series Bulb Thermostats



Specifications

Part Number	Type	Setpoint Adjustment Range °F (°C)	Dimensions		Differential °F (°C)	Safe Bulb Temperature Range °F (°C)
			Capillary Copper ft. (m)	Bulb Copper in. (mm)		
PTC-4111*	Single-Stage Single-Bulb	-40 to 120 (-40 to 49)	8 (2.4)	3/8" dia. x 4" (9.5 mm x 102 mm)	Factory Set 3 (2) Adj. 3 to 16 (2 to 9)	-40 to 170 (-40 to 77)
PTC-4111-020**		-40 to 120 (-40 to 49)	20 (6)			-40 to 170 (-40 to 77)
PTC-4112		100 to 260 (38 to 127)	8 (2.4)			-40 to 310 (-40 to 154)
PTC-4121		-40 to 120 (-40 to 49)	10 (3) Armored			-40 to 170 (-40 to 77)
PTC-4122		100 to 260 (38 to 127)	10 (3) Armored			-40 to 310 (-40 to 154)
PTC-4123		190 to 350 (88 to 176)	10 (3) Armored			-40 to 400 (-40 to 204)
PTC-4211†	Two-Stage Single-Bulb	-40 to 120 (-40 to 49)	8 (2.4)		Per Stage Fixed 3 (2) Between Stages Set 3 (2) Adj. 2 to 10 (1 to 5)	-40 to 170 (-40 to 77)
PTC-4221		-40 to 120 (-40 to 49)	10 (3) Armored			-40 to 170 (-40 to 77)
PTC-4222		100 to 260 (38 to 127)	10 (3) Armored			-40 to 310 (-40 to 154)
PTC-4223		190 to 350 (88 to 176)	10 (3) Armored			-40 to 400 (-40 to 204)

* PTC-4111 replaces Johnson A19ABC-24, White Rodgers 1609-12, -13

** PTC-4111-020 replaces Johnson A19ABC-36

† PTC-4211 replaces Johnson A28AA-29

PTC-4100 Series & PTC-4200 Series Bulb Thermostats

GENERAL INFORMATION

application

For on-off temperature control of refrigeration systems.

specifications

Setpoint Dial Range: Dial plate is marked as °F on one side and °C on the other.

See Table 2 for specific ranges.

sensing element: Liquid-filled copper

differential: See Table 2

ambient temperature limits:

case:

shipping -40 to 160°F (-40 to 71°C)

operating -40 to 150°F (-40 to 65°C)

bulb: See Table 2

electrical switch: snap action SPDT, one per stage

ratings: See Table 1

connections: Coded screw terminals.

cover: All metal with 1/2" to 3/4" conduit openings

case locations: NEMA Type 1 indoor only

mounting: case can be mounted in any position

dimensions:

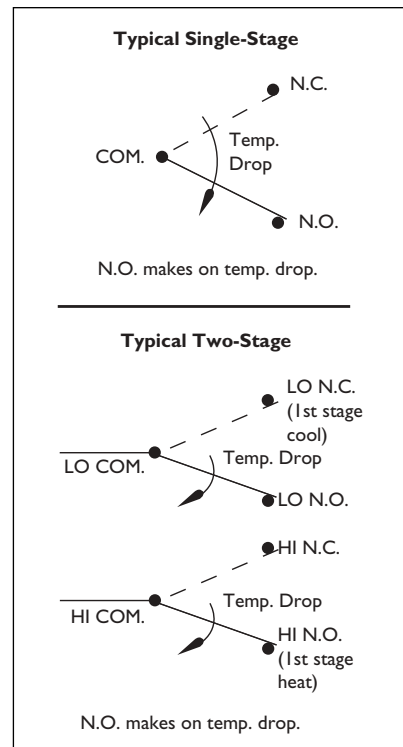
case: 4-5/8" high x 2-1/4" wide x 2" deep
(117 mm x 57 mm x 51 mm)

element and capillary: See Table 2

Maximum Electrical Rating

Switch Rating (50/60 Hz)	24V	120V	240V
Full Load Amps	16.0	16.0	8.0
Locked Rotor Amps	96.0	96.0	48.0
Pilot Duty VA	60	360	360
Non-Inductive Amps (Resistive)			
Single-Stage	22	22	22
Two-Stage	16	16	8.0

Figure 1. Switch Action and Terminal Identification



Invensys

Controls Americas

191 E. North Avenue

Carol Stream Illinois 60188 USA

Customer Service Telephone: +1 800 951 5526

Customer Service Facsimile: +1 630 260 7299

3505 Laird Road Unit #14

Mississauga Ontario L5L 5Y7 Canada

Customer Service Telephone: +1 800 668 6958

Customer Service Facsimile: +1 905 828 1265

www.icca.invensys.com

©2005 Invensys Controls Americas 01/05

150-1845