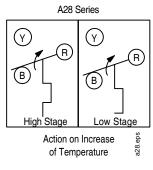


A28 Series

# **Two Stage Temperature Control**

### **Description**

The A28 Series are two stage temperature controls that incorporate a liquid filled sensing element.







#### **Features**

- wide temperature ranges available
- · constant differential throughout the entire range
- SPDT snap-acting switches
- unaffected by changes in barometric pressure
- · unaffected by cross ambient conditions
- · compact enclosure
- · variety of sensing element styles

## **Applications**

Use for temperature sensing applications requiring two-stage control of HVAC/Refrigeration equipment.

#### **Accessories**

- packing nut assembly available for direct immersion applications (Part No. FTG13A-600R)
- remote bulb models include 5/8 in. mounting clip

#### **Selection Charts**

Code Number	Switch Action	Range °F (°C)	Diff F° (C°)	Bulb and Capillary	Bulb Well No. (order separately)	Range Adjuster
COILED BUL	B-FIXED DI	FFERENTIAL				•
A28AA-4C	2-SPDT	30 to 110 (-1 to 43)	3 1/2 (1.9) Ea. Stage 3 (1.7) Fixed Between Stages	1-3/8 in. x 2-1/4 in. Coiled	-	Convertible
CASE COMP	ENSATED-F	IXED DIFFER	ENTIAL			
A28AA-9C	2-SPDT	20 to 80 (-7 to 27)	3 1/2 (1.9) Ea. Stage 3 (1.7) Fixed Between Stages	3/8 in. x 5 in. 6 ft Cap. <sup>1</sup>	WEL14A-603R	Knob
WIDE RANGE	E-ADJUSTA	BLE INTERST	AGE DIFFERENTIAL			•
A28AA-28C	2-SPDT	30 to 110 (-1 to 43)	3 1/2 (1.9) Ea. Stage 2 to 7 Adj. Between Stages	12 ft averaging bulb 6 ft Cap.	-	Screwdriver Slot
A28AA-29C	2-SPDT	-30 to 100 (-34 to 38)	5 (2.8) Ea. Stage 2 to 7 Adj. Between Stages	3/8 in. x 4 in. 8 ft Cap. <sup>1</sup>	WEL14A-602R	Convertible
A28AA-36C	2-SPDT	40 to 90 (4 to 32)	3 Ea. Stage 2 to 7 Adj. Between Stages	3/8 in. x 5-3/4 in. 6 ft Cap.	-	Knob
A28AA-37C	2-SPDT	60 to 140 (16 to 60)	5 Ea. Stage 2 to 7 Adj. Between Stages	3/8 in. x 4 in. 6 ft Cap.	WEL14A-602R	Knob
A28AJ-4C	2-SPDT	20 to 80 (-7 to 27)	2 Ea. Stage 2 to 7 Adj. Between Stages	3/16 in. x 22 in. 6 ft Cap.	-	Knob
CHANGEOVE	R CONTRO	L	•	•	•	•
A28AB-1C	2-SPDT <sup>2</sup>	20 to 80 (-7 to 27)	3 1/2 (1.9)	3/8 in. x 5 in. 6 ft Cap.	WEL14A-603R	Screwdriver Slot
A28AB-2C <sup>3</sup>	2-SPDT <sup>4</sup>	60 to 90 (16 to 32)	5 (2.8)	Strap-on Grid Bulb 42 in. Cap.	-	Screwdriver Slot

- 1. Packing nut assembly available for direct immersion applications (Part No. FTG13A-600R).
- 2. Switches within 1 F° (0.6 C°) of each other.
- 3. Maximum sensing element temperature is 250°F (121°C).
- 4. Switches within 1.5  $F^{\circ}$  (0.9  $C^{\circ}$ ) of each other.



## Two Stage Temperature Control (Continued)

**Replacement Parts** 

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Code Number	Description				
CVR28A-617R	Concealed adjustment				
CVR28A-618R	Visible scale				
KNB20A-602R	Knob kit				

## **Technical Specifications**

Maximum bulb temperature of A28AA-37 is 230°F (110°C). For all others, maximum bulb temperature is 140°F (60°C).

**Electrical Ratings** 

Motor Ratings VAC	120	208	240	277	
	•	A28AA, A	•		
AC Full Load A	16.0	9.2	8.0		
AC Locked Rotor A	96.0	55.2	48.0		
Non-Inductive or Resistance Load A (Not Lamp Loads)	16.0	9.2	8.0	7.2	
Pilot Duty – 125 VA, 24 to 277 VAC <sup>1</sup>	•	•	<b>,</b>	•	
		A28AJ			
AC Full Load A	6.0	3.4	3.0		
AC Locked Rotor A	36.0	20.4	18.0		
Non-Inductive or Resistance Load A (Not Lamp Loads)	15.0	9.2	8.0	7.2	
Pilot Duty – 125 VA, 24 to 277 VAC <sup>1</sup>	•	•	<b>,</b>	•	
		A28AB			
AC Full Load A	16.0	9.2	8.0		
AC Locked Rotor A	96.0	55.2	48.0		
Non-Inductive or Resistance Load A (Not Lamp Loads)	16.0	9.2	8.0	7.2	
Pilot Duty – 125 VA, 24 to 277 VAC <sup>1</sup>	I	L	L	<u> </u>	

<sup>1.</sup> When used as two circuit control, the total connected load must not exceed 2000 VA.