



# A19 Series Remote Bulb Control

## Description

The A19 Series Controls are single-stage temperature controls that incorporate environmentally friendly liquid-filled sensing elements.

Refer to the *A19 Series Hot Water Heating Controls Well Immersion Product Bulletin (LIT-125025)* for important product application information.

## Features

- wide temperature ranges available
- constant differential throughout the entire range
- compact enclosure
- fixed or adjustable differential available
- variety of sensing element styles
- unaffected by cross-ambient conditions

## Applications

The A19 is suitable for temperature control in HVAC/R applications.

## Selection Charts

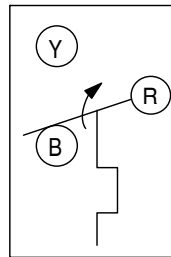
### A19 Series Remote Bulb Control<sup>1</sup>

Product Code Number	Switch Action	Range °F (°C)	Differential F° (C°)	Bulb and Capillary	Bulb Well No. (Order Separately)	Range Adjuster	Max. Bulb Temp. °F (°C)
<b>Adjustable Differential (Wide Range)</b>							
A19ABA-40C <sup>2</sup>	Single-Pole, Single-Throw (SPST) Open low	-30 to 100 (-34 to 38)	3 to 12 (1.7 to 6.7)	3/8 in. x 4 in., 6 ft. capillary	WEL14A-602R	Screwdriver Slot	140 (60)
A19ABC-4C	SPDT	50 to 130 (10 to 55)	3-1/2 to 14 (1.9 to 8)	3/8 in. x 5 in., 8 ft. capillary	WEL14A-603R	Knob	170 (77)
A19ABC-24C <sup>3</sup>	SPDT	-30 to 100 (-34 to 38)	3 to 12 (1.7 to 6.7)	3/8 in. x 4 in., 8 ft. capillary	WEL14A-602R	Convertible	140 (60)
A19ABC-36C	SPDT	-30 to 100 (-34 to 38)	3 to 12 (1.7 to 6.7)	3/8 in. x 4 in., 20 ft. capillary	WEL14A-602R	Convertible	140 (60)
A19ABC-37C	SPDT	-30 to 100 (-34 to 38)	3 to 12 (1.7 to 6.7)	3/8 in. x 4 in., 10 ft. capillary	WEL14A-602R	Screwdriver slot	140 (60)
A19ABC-74C	SPDT	-30 to 100 (-34 to 38)	3 to 12 (1.7 to 6.7)	3/8 in. x 4 in., 6 ft. capillary	WEL14A-602R	Screwdriver slot	140 (60)
<b>Fixed Differential</b>							
A19AAF-12C	SPDT	25 to 225 (-4 to 107)	3-1/2 (1.9)	3/8 in. x 3 in., 10 ft. capillary	WEL14A-602R	Screwdriver slot	275 (135)
<b>Fixed Differential (Case Compensated)</b>							
A19AAC-4C	SPDT	0 to 80 (-18 to 27)	5 (2.8)	3/8 in. x 4 in., 6 ft. capillary	WEL14A-602R	Screwdriver slot	140 (60)
A19AAD-12C	SPST Open low	-30 to 50 (-34 to 10)	2-1/2 (1.4)	3/8 in. x 4 in., 7 ft. capillary	WEL14A-602R	Screwdriver slot	140 (60)
<b>Fixed Differential (Close)</b>							
A19AAD-5C <sup>4</sup>	SPST Open low	30 to 50 (-1 to 10) (Bulk Milk Cooler)	2-1/2 (1.4)	3/8 in. x 2-5/8 in., 6 ft. capillary	WEL16A-601R	Screwdriver slot	190 (88)
A19AAF-20C	SPDT	-30 to 100 (-34 to 38)	2-1/2 (1.4)	3/8 in. x 4 in., 6 ft. capillary	WEL14A-602R	Screwdriver slot	140 (60)
A19AAF-21C	SPDT	40 to 90 (4 to 32)	1-1/2 (0.8)	3/8 in. x 5-3/4 in., 6 ft. capillary	WEL14A-603R	Screwdriver slot	140 (60)
<b>Manual Reset</b>							
A19ACA-14C	SPST Open low	-30 to 100 (-34 to 38)	Manual reset	3/8 in. x 4 in. 6 ft capillary	WEL14A-602R	Screwdriver slot	140 (60)
A19ACA-15C	SPST Open low	-30 to 100 (-34 to 38)	Manual reset	3/8 in. x 4 in. 10 ft capillary	WEL14A-602R	Screwdriver slot	140 (60)
A19ADB-1C	SPST Open high	100 to 240 (38 to 116)	Manual reset	3/8 in. x 3-1/2 in. 6 ft capillary	WEL14A-602R	Knob	290 (143)
A19ADB-38C	SPST Open high	100 to 240 (38 to 116)	Manual reset	3/8 in. x 4 in. 6 ft capillary	WEL14A-602R	Screwdriver slot	290 (143)

1. Specify the control model code number, packing nut code number (if required), and bulb well code number (if required).
2. Replaces White-Rodgers® 1609-101
3. Replaces White-Rodgers 1609-12, -13; Ranco® 010-1408, -1409, -1410, -1490, 060-110; Honeywell® L6018C-1006, L6021A-1005, T675A-1011, -1508, -1516, -1821, T4301A-1008, T6031A-1011, T6031A-1029
4. Case-Compensated

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A19 Series



Action on Increase of Temperature

A19 Series Terminal Arrangement for Single-Pole, Double-Throw (SPDT)

a 19 eps



A19ABC-24 Remote Bulb Control



## Single-Stage Electromechanical Temperature Controls

### A19 Series Remote Bulb Control (Continued)

#### Replacement Parts

Product Code Number	Description
CVR28A-617R	Concealed adjustment cover
CVR28A-618R	Visible scale cover
KNB20A-602R	Replacement Knob Kit

#### Accessories

A packing nut is available for closed tank application.  
Specify the code number **FTG13A-600R**.

Bulb wells (WEL14A Series) are available for liquid immersion applications.  
See the selection chart or the *Bulb Wells Catalog Page (LIT-1922135)*.

#### Technical Specifications

##### Electrical Ratings

Motor Ratings VAC	120	208	240
<b>Wide Range – Adjustable Differential</b>			
AC Full Load A	16.0	9.2	8.0
AC Locked Rotor A	96.0	55.2	48.0
Non-Inductive A <sup>1</sup>	22 A, 120 to 277 VAC		
Pilot Duty	125 VA, 24 to 600 VAC		
<b>Fixed Differential and Close Differential</b>			
AC Full Load A	6.0	3.4	3.0
AC Locked Rotor A	36.0	20.4	18.0
Non-Inductive A	10 A, 24 to 277 VAC		
Pilot Duty	125 VA, 24 to 277 VAC		
<b>Case Compensated – Fixed Differential A19AAC-4</b>			
AC Full Load A	16.0	9.2	8.0
AC Locked Rotor A	96.0	55.2	48.0
Non-Inductive A <sup>1</sup>	22 A, 120 to 277 VAC		
Pilot Duty	125 VA, 24 to 600 VAC		
<b>A19AAD-12</b>			
AC Full Load A	6.0	3.4	3.0
AC Locked Rotor A	36.0	20.4	18.0
Non-Inductive A	10 A, 24 to 277 VAC		
Pilot Duty	125 VA, 24 to 277 VAC		
<b>Manual Reset</b>			
AC Full Load A	16.0	9.2	8.0
AC Locked Rotor A	96.0	55.2	48.0
Non-Inductive A	16.0	9.2	8.0
Pilot Duty	125 VA, 24 to 600 VAC		

1. SPST and N.O. contact of SPDT control;  
SPDT N.C. contact- 16 amperes 120 to 277 VAC