



A19 Series Remote Bulb Control Catalog Page

LIT-1927010

2020-04-22



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

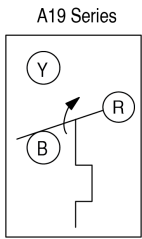
- wide temperature ranges available
- constant differential throughout the entire range
- compact enclosure
- fixed or adjustable differential available
- variety of sensing element styles
- unaffected by cross-ambient conditions

Applications

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

A19AAC, A19AAD, A19AAF, A19ABA, A19ABC, A19ACA, A19ADB

Figure 1: A19 Series terminal arrangement for Single-Pole, Double-Throw (SPDT)



Action on Increase of Temperature

Selection charts

Specify the control model code number, packing nut code number (if required), and bulb well code number (if required).

Table 1: A19 Series Remote Bulb Control selection chart

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)
Adjustable Differential (wide range)							
A19ABA-40C ¹	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 ²	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)
Fixed Differential							
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)
Fixed Differential (case compensated)							
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)
Fixed Differential (Close)							
A19AAD-5C ³	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)

Table 1: A19 Series Remote Bulb Control selection chart

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)
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)
Manual Reset							
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 Replaces White-Rodgers® 1609-101
- 2 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
- 3 Case-compensated

Table 2: 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)*.

A19 Series Remote Bulb Control technical specifications

Table 3: Electrical ratings

Motor ratings VAC	120	208	240
Wide Range—Adjustable Differential			
AC Full Load A	16.0	9.2	8.0
AC Locked Rotor A	96.0	55.2	48.0
Non-Inductive A ¹	22 A, 120 to 277 VAC		
Pilot Duty	125 VA, 24 to 600 VAC		
Fixed Differential and Close Differential			
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		
Case Compensated—Fixed Differential A19AAC-4			
AC Full Load A	16.0	9.2	8.0

Table 3: Electrical ratings

Motor ratings VAC	120	208	240
AC Locked Rotor A	96.0	55.2	48.0
Non-Inductive A ¹	22 A, 120 to 277 VAC		
Pilot Duty	125 VA, 24 to 600 VAC		
A19AAD-12			
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		
Manual Reset			
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

Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.

Single point of contact

APAC	Europe	NA/SA
JOHNSON CONTROLS C/O CONTROLS PRODUCT MANAGEMENT NO. 32 CHANGJIANG RD NEW DISTRICT WUXI JIANGSU PROVINCE 214028 CHINA	JOHNSON CONTROLS WESTENDHOF 3 45143 ESSEN GERMANY	JOHNSON CONTROLS 507 E MICHIGAN ST MILWAUKEE WI 53202 USA

Contact information

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