

A19 Series

# High Range Temperature Control

## Description

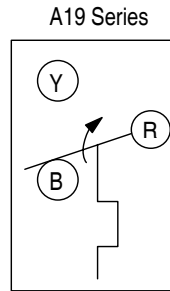
The A19 Series controls are single stage temperature controls that incorporate liquid-filled sensing elements.

## Features

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

## Applications

The A19s are suitable for temperature control in heating, ventilating, air conditioning, and refrigeration applications.



Action on Increase of Temperature

a19.eps



A19AAB

A19 Series  
Terminal Arrangement for SPDT

## Selection Charts

### A19 Series High Range Temperature Control

| Code Number <sup>1</sup> | Switch Action                          | Range °F (°C)          | Diff F° (C°) (Factory Set) | Bulb and Capillary                                 | Bulb Well No. (order separately) | Range Adjuster                 | Max Bulb Temp °F (°C) |
|--------------------------|--|------------------------|----------------------------|--|----------------------------------|--------------------------------|-----------------------|
| A19AAB-4C                | SPST, Open High Remote Bulb Thermostat | 30 to 110 (-1 to 43)   | 3 1/2 (1.9)                | 3/8 in. x 5 in. copper 6 ft. Cap. <sup>2</sup>     | WEL14A-602R                      | Screwdriver slot Visible scale | 140 (60)              |
| A19AAB-7C                | SPST, Open High Oven Thermostat        | 100 to 300 (38 to 149) | 7 (3.9)                    | 3/16 in. x 9-1/2 in. copper 6 ft. Cap.             | —                                | Knob Visible scale             | 350 (177)             |
| A19AAB-10C               | SPST, Open High Oven Thermostat        | 200 to 550 (93 to 288) | 10 (5.6)                   | 3/16 in. x 6 in. copper 8 ft. Cap.                 | —                                | Convertible                    | 620 (327)             |
| A19AAC-9C                | SPDT                                   | 100 to 240 (38 to 116) | 6 (3.3)                    | 3/8 in. x 3-1/2 in. copper 6 ft. Cap. <sup>2</sup> | WEL14A-602R                      | Screwdriver slot Visible Scale | 290 (143)             |
| A19ABB-2C                | SPST, Open High Remote Bulb Thermostat | 50 to 200 (10 to 93)   | Adj. 6 to 24 (3 to 13)     | 0.290 in. x 2-1/2 in. copper 10 ft. Cap.           | —                                | Knob Visible Scale             | 240 (116)             |
| A19ABB-7C                |  | 50 to 201 (10 to 94)   |                            | 7.4 x 64 mm copper 3m Cap.                         |                                  |                                | 240 (116)             |

1. Specify code number, and closed tank fitting (Code Number FTG13A-600R), or bulb well, if required.
2. With 3 inch bulb support

## Replacement Parts

| Code Number | Description                |
|-------------|----------------------------|
| CVR28A-617R | Concealed adjustment cover |
| CVR28A-618R | Visible scale cover        |
| KNB20A-602R | Replacement knob kit       |

## Technical Specifications

### Electrical Ratings

| Motor Ratings VAC                  | 120                   | 208  | 240  |
|------------------------------------|-----------------------|------|------|
| 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 |                       |      |      |

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