



## A19D Series Surface Mounted Temperature Controls

### Description

The A19D Series Surface Mounted Temperature Controls are reliable, durable On/Off temperature controls with line-voltage single-pole, double-throw (SPDT) switches. The A19D Series Controls are designed primarily for fluid piping applications and include two adjustable mounting straps for mounting the control directly to a pipe.

Refer to the *A19D Series Surface Mounted Temperature Controls Product Bulletin (LIT-125070)* for important product application information.

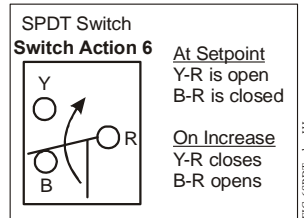
### Features

- SPDT switch action provides either high or low temperature detection.
- sealed, dust-protected switch provides reliable and durable On/Off control for commercial and industrial applications.
- color-coded electrical terminals simplify wiring the controls.
- sensing element insulated from the control case minimizes the effects of ambient temperature on the control setpoint.

- convertible range adjuster kit provides knob, screwdriver, or concealed adjustment options.
- multi-position mounting capability allows you to mount the control in any position on horizontal, vertical, or angled pipes.
- NEMA 1 enclosure provides protection against contact with the control's electrical components and protects the switch and electrical terminals from incidental contact.

### Applications

Typical A19D control applications include high temperature detection on boiler applications and low temperature detection on unit heaters coil applications.



A19D Series Control Switch Action



A19D Series Temperature Control

### Repair Information

If the A19D Series Surface Mounted Temperature Control fails to operate within its specifications, replace the unit. For a replacement control, contact the nearest Johnson Controls® representative.

### Selection Chart

Product Code Number	Description
A19DAC-1C	100 to 240°F Temperature Range and Scale, 10 F° (± 2.8 F°) Differential, Visible Range Scale
A19DAC-9C	40 to 120°C Temperature Range and Scale, 6 C° (± 1.0 C°) Differential, Visible Range Scale
A19DAC-10C	40 to 120°C Temperature Range and Scale, 6 C° (± 1.0 C°) Differential, Concealed Range Scale
A19DAC-12C	100 to 240°F Temperature Range and Scale, 10 F° (± 2.8 F°) Differential, Concealed Range Scale
A19DAF-2C	200 to 240°F Temperature Range and Scale, 3-1/2 F° (± 2.0 F°) Differential, Concealed Range Scale

### Technical Specifications

A19D Series Surface Mount Temperature Controls				
Product Code Number	A19DAC: SPDT switch, standard differential A19DAF: SPDT switch, narrow differential			
Adjustable Temperature Range	A19DAC: 100 to 240°F or 40 to 120°C A19DAF: 200 to 240°F (95 to 120°C)			
Fixed Temperature Differential	A19DAC: 10 F° or 6.0 C° A19DAF: 3-1/2 F° (1.9 C°)			
Maximum Ambient Operating Temperature	Controller Housing: 140°F (60°C) Sensor Element: 250°F (121°C)			
Switch Contact Action	SPDT, Snap Acting, Enclosed Dust Protected Pennswitch Red to Yellow Terminal Contacts Close on Temperature Increase Red to Blue Terminal Contacts Open on Temperature Increase			
Terminal Screws	No. 8-32 x 1/4 in. Binder Head with Cup Washers			
Electrical Ratings	<u>A19DAC: Standard Differential</u>		<u>A19DAF: Narrow Differential</u>	
	Motor Rating VAC	120 240	120 240	
	Full Load Amperes	10.0 6.0	6.0 3.4	
	Locked Rotor Amperes	60.0 36.0	36.0 20.4	
	Non-Inductive Amperes	10.0 6.0	6.0 3.4	
	Pilot Duty	125 VA, 24 to 277 VAC		125 VA, 24 to 277 VAC
Enclosure	NEMA Type 1 General Purpose; Cold Rolled Steel, Gray Baked Enamel			
Mounting	Clamp-On (Straps Included)			
Shipping Weight	1-1/5 lb (.54 kg)			
Compliance	UL Guide No. XAPX, File E6688 CSA Class No. 4813 02, File LR948 C-Tick			

The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the Johnson Controls, Inc. shall not be liable for damages resulting from misapplication or misuse of its products. © 2015 Johnson Controls, Inc.