

A70 Series

Four-Wire, Two-Circuit Temperature Control

Description

The A70 Series temperature control incorporates a vapor-charged sensing element. The A70G, A70H, and A70K have a 4-wire, 2-circuit contact block that contains two isolated sets of contacts.

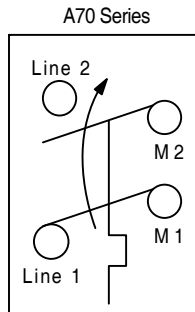
The contacts are designed so that when the main contact opens, the auxiliary contact closes.

Features

- long-life, snap-acting contacts
- automatic or manual reset models

Applications

Typical applications include energizing an indicator light after a low temperature cutout on a ventilating system.



Action on Increase on Temperature

A70 Series Action Diagram



A70GA-1

Selection Charts

A70 Series Four-Wire, Two-Circuit Temperature Control

Code Number	Switch Action		Range °F (°C)	Diff F° (C°)	Bulb and Capillary	Max Bulb Temp °F (°C)	Range Adjuster	
	Main Contacts	Auxiliary Contacts						
A70GA-1C ¹	Open Low	Close Low	15 to 55 (-9.4 to 12.8)	5 (2.8)	20 ft of 1/8 in. O.D. Tubing	400 (204.4)	Screwdriver slot	
A70GA-2C			35 to 80 (1.7 to 26.7)	3 to 30 (-16.1 to -1.1), factory set at 12 (-11.1)	3/8 in. x 3 in. 6 ft Cap.	250 (121)		
A70HA-1C ¹			Manual reset	15 to 55 (-9.4 to 12.8)	Manual reset	20 ft of 1/8 in. O.D. Tubing		400 (204.4)
A70HA-2C				35 to 80 (1.7 to 26.7)		3/8 in. x 3 in. 6 ft Cap.		250 (121)
A70HA-14C				15 to 55 (-9.4 to 12.8)		20 ft of 1/8 in. O.D. Tubing		400 (204.4)
A70KA-1C				Open High		Close High		100 to 170 (37.8 to 76.7)

1. On these models, the low cutout stop is set and sealed at 35°F (1.6°C). It cannot be set lower. The control responds only to the lowest temperature along any 14 to 16 in. section of the entire 20 ft element.

Replacement Covers

Code Number	Description
CVR17A-620R	Automatic reset cover
CVR17A-621R	Manual reset cover

Technical Specifications

Electrical Ratings

Pole Number	LINE-M2 (Main)						LINE-M1 (Auxiliary)			
	120	208	240	277	480 ¹	600 ¹	120	208	240	277
Motor Ratings VAC	16.0	9.2	8.0	—	5.0	4.8	6.0	3.4	3.0	—
AC Full Load A	16.0	9.2	8.0	—	5.0	4.8	6.0	3.4	3.0	—
AC Locked Rotor A	96.0	55.2	48.0	—	30.0	28.8	36.0	20.4	18.0	—
AC Non-Inductive A	16.0	9.2	8.0	7.2	—	—	6.0	6.0	6.0	6.0
Pilot Duty – Both Poles	125 VA, 120 to 600 VAC and 57.5 VA, 120 to 300 VDC									

1. Not compressor motor loads.