

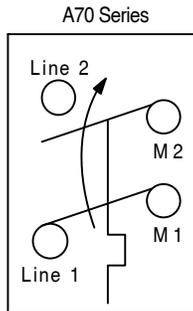
# A70 Series Four-Wire, Two-Circuit Temperature Control

## Description

The A70 Series Temperature Control incorporates a vapor-charged sensing element. The A70G, A70H, and A70K have a four-wire, two-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.

Refer to the *A70, A72 Series Temperature Controls for Refrigeration and Heating Product Bulletin (LIT-125155)* for important product application information.



Action on Increase on Temperature

A70 Series Action Diagram



A70GA-1 Temperature Control

## 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.

## Selection Charts

### A70 Series Four-Wire, Two-Circuit Temperature Control

Product Code Number	Switch Action		Range °F (°C)	Differential F° (C°)	Bulb and Capillary	Maximum Bulb Temperature °F (°C)	Range Adjuster	
	Main Contacts	Auxiliary Contacts						
A70GA-1C <sup>1</sup>	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 capillary	250 (121)		
A70HA-1C <sup>1</sup>			Manual reset	15 to 55 (-9.4 to 12.8)	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 capillary		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)			3/8 in. x 3 in. 6 ft capillary

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

Product 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 <sup>1</sup>	600 <sup>1</sup>	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.