



# Type A19BAG Thermostat For Portable Heaters With Thermostat Extension Cord and Beaded Chain Hanger

## Application

The A19BAG special thermostat for portable heaters is a single-pole, single-throw control with contacts opening on a rise in temperature. The thermostats are supplied with an adjustable range and a fixed differential. A "No Heat" position on the dial permits manual shutdown of the heater without disconnecting the thermostat or the power supply. A special 3-wire extension cord and "series plug" are an integral part of this control to permit "plugging" the heater cord into the thermostat extension cord for automatic operation. A beaded chain hanger is supplied to permit supporting the thermostat in any convenient location.

**All Series A19 thermostats are designed for use *only* as operating controls. Where an operating control failure would result in personal injury and/or loss of property,**

**it is the responsibility of the installer to add devices (safety, limit controls) or systems (alarm, supervisory systems) that protect against, or warn of, control failure.**

## General Description

The A19BAG is a sturdy, compact thermostat with a visible scale and an adjustable set point knob. An exposed helical sensing element is specially designed and field proven for rapid response and dependability. The enclosed snap-acting contacts are dust protected. The thermostat has a NEMA Type 1 enclosure and is designed for portable heater applications.

A strain relief bushing on the extension cord minimizes undue strain on the wire connections at the terminals.

## Ordering Information

To order specify Product Number A19BAG-1 only.



**Fig. 1 -- Product Number A19BAG-1 showing beaded chain and thermostat extension cord.**

## Specifications

<b>Product Number</b>	<b>A19BAG-1</b>	Thermostat with Adjustable Range, "No Heat" Position
<b>Range</b>		35 to 95°F (2 to 35°C)
<b>Differential</b>		3 1/2°F* (1.9°C*) Nonadjustable
<b>Finish</b>		Gray Baked Enamel
<b>Material</b>	<b>Case</b>	.062" (1.6 mm) Cold Rolled Steel
	<b>Cover</b>	.025" (0.6 mm) Cold Rolled Steel
<b>Electrical Connection</b>		Extension Cord 6' (1.8 m) Long, HSJ Class Specification, Rubber Covered 3-Prong Plug and "Series" Socket for 120 Volt Service, 15 Amp. Rating. The Case is Electrically Connected to Green "Ground" Wire
<b>Switch</b>		Enclosed, Dust Protected, SPST Pennswitch
<b>Chain Kit</b>		7" Beaded Brass Chain with Sleeves and Snap Plugs with Each Thermostat
<b>Sensing Element</b>		Liquid Charge, Coiled Copper Air Bulb, Cadmium Plated with Supplemental Dichromate Treatment, Black Vinyl Coated
<b>Shipping Weight</b>	<b>Individual Pack</b>	1.6 lb (0.7 kg)

## Installation

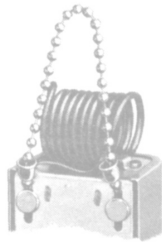
The A19BAG comes with the thermostat extension cord factory installed. The following installation steps are all that is necessary to ready the A19BAG for service.

1. Remove the beaded chain, with sleeves and snap plugs (2) from envelope.
2. Place ends of the beaded chain into the slots in the back of the case (opposite cord end). Push in the snap plugs to hold the chain. (See Fig. 3.)
3. Hang the thermostat in a convenient location where the thermostat extension cord can be plugged into a power supply. The supply outlet must be a 3-prong type for 120 Volt service, "Green" wire should be connected to "Ground."

All wiring should conform to the National Electrical Code and local regulations.



**Fig. 2 --** Beaded chain with sleeves installed. The “snap” plugs are used to hold the chain in the thermostat.



**Fig. 3 --** Back view of thermostat illustrating method of installing chain.

**⚠ CAUTION:** Do not dent or deform the sensitive bulb of this control. Denting or deforming will change the calibration and cause the control to cycle at a temperature lower than the dial setting.

**Electrical Ratings**

Volts, AC	120
Full Load Amps.	15
Locked Rotor Amps.	90
Non-Inductive	1800 Watts 120 VAC
Pilot Duty	125 VA, 24/120 VAC

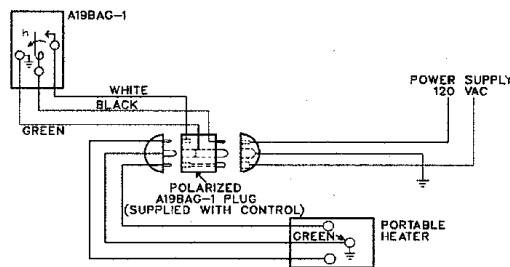
**Checkout Procedure**

Before leaving the installation, observe at least three complete operating cycles to be sure that all components are functioning correctly.

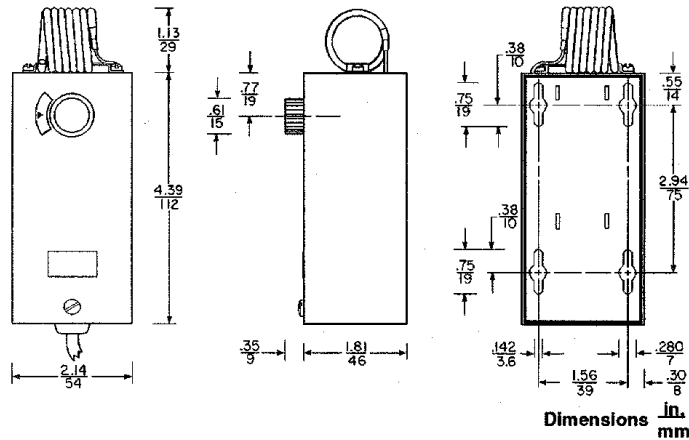
**Repairs and Replacement**

Field repairs must not be made. For a replacement thermostat, contact the nearest Johnson Controls wholesaler.

- Be sure the thermostat is installed in a location where direct air from doors, windows and other cold air sources; or heat from heater discharge, lights and other heat sources will not unduly affect the thermostat operation.
- Plug the heater cord into the thermostat extension cord. The heater cord should be 3-wire type with 3-prong plug for 120 Volt service and the “Green” wire should be connected to heater enclosure. For longer runs use only 3-wire extension cords which have 3-prong grounding type plugs and adequate wire size.



**Fig. 4 --** Schematic wiring hookup of Product Number A19BAG-1 with portable construction heater.



*Performance specifications appearing herein are nominal and are subject to accepted manufacturing tolerances and application variables.*



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