

MS4PMUHVT

Multi-Stage Electronic Temperature Control with Relay Pack



MS4PMUHVT

Description

The MS4PMUHVT control is intended for multi-stage temperature control applications. This microprocessor based control offers innovative features and "state of the art" technology to improve all your staged temperature control applications.

Features

- four enclosed, line voltage relays provide direct control of motor loads without additional relays
- 120/240 VAC power supply eliminates need for separate transformers
- one control provides single-sensor multi-stage control or dual-sensor reset control, which reduces need for warehouse or truck to stock multiple controls for similar applications
- accepts A99 sensor signal, which is suitable for a wide range of applications
- Surface Mounted Design (SMD) technology assures high quality, reliable components in a compact package
- keypad lock deters accidental changes to parameter settings
- listed for use on refrigeration equipment in accordance with Canadian and U.S. National standards

Applications

This control is specifically designed for the control of four stage applications in the following configurations:

- four cooling stages with common setpoint
- four heating stages with common setpoint
- four stages with deadband (two heating stages and two cooling stages with common setpoint)
- two independent sets of two dependent stages (two heating stages and two cooling stages with independent setpoints)

To Order

Specify the code number from the following selection chart.

Specifications

MS4PMUHVT Multi-Stage Electronic Temperature Control with Relay Pack	
Power Requirements	120 VAC $\pm 10\%$ or 240 VAC $\pm 10\%$
Frequency	60/50 Hz
Power Consumption	10 VA @240 VAC, 10 VA @120 VAC
Sensor Range	-40 to 158°F (-40 to +70°C)
Accuracy	$\pm 1^\circ\text{F} / \pm 1^\circ\text{C}$
Ambient Operating Conditions	MS4PMUHVT-11C +14 to +140°F (-10 to +60°C); 0 to 95 % RH (non-condensing)
	MS4PM12CT-11C +14 to +140°F (-10 to +60°C); 0 to 95 % RH (non-condensing)
	RP4MSUHV-1C -40 to +140°F (-40 to +60°C); 0 to 95 % RH (non-condensing)
Ambient Storage Conditions	MS4PMUHVT-11C -22 to +176°F (-30 to +80°C); 0 to 95 % RH (non-condensing)
	MS4PM12CT-11C -22 to +176°F (-30 to +80°C); 0 to 95 % RH (non-condensing)
	RP4MSUHV-1C -40 to +185°F (-40 to +85°C); 0 to 95 % RH (non-condensing)
Agency Listings	UL File SA516, Guide SDFY cUL File SA516, Guide SDFY7
Emissions Compliance	FCC (US), DOC (Canada)
Dimensions (H x W x D)	7.94 x 3.6 x 2.4 in. (202 x 92 x 61 mm)
Shipping Weight	2.9 lb (1320 g)

Selection Chart

Code Number	Description
MS4PMUHVT-11C	Multi-Stage Electronic Temperature Control with Relay Pack and One Temperature Sensor

Accessories and Repair Parts

Code Number	Description
MS4PM12CT-11C	Replacement Control (for use only with relay pack)
RP4MSUHV-1C	Replacement Relay Pack without Control
A99BB-200C	Sensor with 6.5 ft/1.98 m Cable Length

Electrical Ratings per Relay

	24 VAC	120 VAC	208 VAC	240 VAC
HP	—	1/3	3/4	1
FLA (Ampere)	—	7.2	7.6	8
LRA (Ampere)	—	43.2	45.6	48
Non-Inductive (Ampere)	—	8	8	8
Pilot Duty (VA)	50	325	625	750