# MS4PMUHVT Multi-Stage Electronic Temperature Control with Relay Pack Catalog Page

LIT-1927375

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## 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.

Refer to the *MS4PMUHVT Multi-Stage Electronic Temperature Control with Relay Pack Product Bulletin (LIT-125195)* for important product application information.

## 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)

## Repair Information

If the MS4PMUHVT Multi-Stage Electronic Temperature Control with Relay Pack fails to operate within its specifications, replace the unit. For a replacement control, contact the nearest Johnson Controls® representative.

## Selection Charts

**Table 1: MS4PMUHV Multi-Stage Electronic Temperature Control with Relay Pack**

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

**Table 2: Accessories and Maintenance Parts**

| Product Code Number | Description |
|---|---|
| A99BB-200C | Sensor with 6-1/2 ft/1.98 m Cable Length |
| MS4PM12CT-11C | Replacement Control (for use only with relay pack) |
| RP4MSUHV-1C | Replacement Relay Pack without Control |

**Table 3: 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 |

## MS4PMUHVT Multi-Stage Electronic Temperature Control with Relay Pack technical specifications

**Table 4: MS4PMUHVT Multi-Stage Electronic Temperature Control with Relay Pack technical specifications**

| Specification | | Description |
|---|---|---|
| Power Requirements | | 120 VAC ± 10% or 240 VAC ± 10% |
| Frequency | | 60/50 Hz |
| Power Consumption | | 10 VA at 240 VAC, 10 VA at 120 VAC |
| Sensor Range | | -40 to 158°F (-40 to +70°C) |
| Accuracy | | ±1 F°/±1 C° |
| Ambient Operating Conditions | MS4PMUHVT-11C | +14 to +140°F (-10 to +60°C); 0 to 95% RH (noncondensing) |
| | MS4PM12CT-11C | +14 to +140°F (-10 to +60°C); 0 to 95% RH (noncondensing) |
| | RP4MSUHV-1C | -40 to +140°F (-40 to +60°C); 0 to 95% RH (noncondensing) |
| Ambient Storage Conditions | MS4PMUHVT-11C | -22 to +176°F (-30 to +80°C); 0 to 95% RH (noncondensing) |
| | MS4PM12CT-11C | -22 to +176°F (-30 to +80°C); 0 to 95% RH (noncondensing) |
| | RP4MSUHV-1C | -40 to +185°F (-40 to +85°C); 0 to 95% RH (noncondensing) |
| Agency Listings | | UL File SA516, Guide SDFYc UL File SA516, Guide SDFY7 |
| Emissions Compliance | | FCC (US), DOC (Canada) |
| Dimensions (H x W x D) | | 7.94 x 3-3/5 x 2-2/5 in. (202 x 92 x 61 mm) |
| Shipping Weight | | 2.9 lb (1,320 g) |

## Product warranty

This product is covered by a limited warranty, details of which can be found at www.johnsoncontrols.com/buildingswarranty.



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## Software terms

**Use of the software that is in (or constitutes) this product, or access to the cloud, or hosted services applicable to this product, if any, is subject to applicable terms set forth at www.johnsoncontrols.com/techterms.** Your use of this product constitutes an agreement to such terms.

## Single point of contact

| APAC | Europe | NA/SA |
|---|---|---|
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## Contact information

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