230/24 VAC *Metasys®* Panels

Description

230/24 VAC *Metasys*® Panels feature a wide assortment of panel enclosure configurations that use the latest Johnson Controls® *Metasys* system control products. These panels are designed and built to suit the general purpose of the HVAC market in the Middle East and South America. The panel design takes into consideration customer requirements for reliable material selection based on specific application and local electrical codes.

The control panel is shipped complete, mounted in an IP32 rated steel enclosure. In addition to the field controller or network engine, the assembly also contains low voltage terminal blocks, a 96 VA power supply incorporating a 5A circuit breaker, and a 230/24 VAC transformer with two universal convenience outlets (rated 230 VAC).

The 230/24 VAC *Metasys* control panel is a pre-wired, pre-assembled standard control panel enclosure that contains either supervisory controllers (MS-NCE2560-0, MS-NAE3510-2, MS-NAE4510-2, MS-NAE5510-2, or MS-NAE5510-3) or a field

controller and input/output module (MS-FEC2611-0, MS-IOM4711-0).

Expansion series panels are also available in four popular sizes to provide flexibility in mounting a wide variety of *Metasys* controllers and accessories.

These panels contain terminal blocks that are pre-wired and pre-labeled to match every terminal on the controller, making installation, commissioning, and servicing quicker and easier.

Features

- Standardized control panel layout for consistent solutions simplifies installation and commissioning
- Power supply with resettable circuit breaker and transformer provides high and low voltage protection
- Pre-built, pre-wired, and pre-tested in an IS0-9002 manufacturing facility provides products of consistently high quality
- IP32 rated enclosure meets local and national code requirements

230/24 VAC *Metasys* Control Panel

Repair Information

If the 230/24 VAC *Metasys* Panel fails to operate within its specifications, replace the unit. For a replacement panel, contact the nearest Johnson Controls® representative.

Selection Charts

Field Controller Panels

Product Code Number	Description
PAKG00019EA0	MS-FEC2611-0 controller mounted in a 24 in. x 24 in. x 6-5/8 in. IP32 rated enclosure with 230/24 VAC power supply and terminal blocks
PAKG00019BA0	MS-FEC2611-0 controller mounted in a 24 in. x 36 in. x 6-5/8 in. IP32 rated enclosure with 230/24 VAC power supply and terminal blocks
PAKGJJ01ABA0	MS-FEC2611-0 and MS-IOM4711-0 controllers mounted in a 24 in. x 36 in. x 6-5/8 in. IP32 rated enclosure with 230/24 VAC power supply and terminal blocks
PAJJ00009FA0	MS-IOM4711-0 controller mounted in a 16 in. x 20 in. x 6-5/8 in. IP32 rated enclosure with 230/24 VAC power supply and terminal blocks

Network Engine Panels

Product Code Number	Description
PAGJ00009FA0	MS-NAE3510-2 controller mounted in a 16 in. x 20 in. x 6-5/8 in. IP32 rated enclosure with 230/24 VAC power supply, terminal blocks and 5-port Ethernet switch
PAGE00009FA0	MS-NAE4510-2 controller mounted in a 16 in. x 20 in. x 6-5/8 in. IP32 rated enclosure with 230/24 VAC power supply, terminal blocks and 5-port Ethernet switch
PAG200009AA0	MS-NAE5510-3 controller mounted in a 20 in. x 24 in. x 6-5/8 in. IP32 rated enclosure with 230/24 VAC power supply, terminal blocks and 5-port Ethernet switch
PARE00009BA0	MS-NCE2560-0 controller mounted in a 24 in. x 36 in. x 6-5/8 in. IP32 rated enclosure with 230/24 VAC power supply, terminal blocks and 5-port Ethernet switch

Expansion Panel

Product Code Number	Description
PA0000009FA0	16 in. x 20 in. x 6-5/8 in. IP32 rated panel enclosure with 230/24 VAC power supply, terminal blocks and 5 point distribution terminal block
PA0000009AA0	20 in. x 24 in. x 6-5/8 in. IP32 rated panel enclosure with 230/24 VAC power supply, terminal blocks and 5 point distribution terminal block
PA0000009EA0	24 in. x 36 in. x 6-5/8 in. IP32 rated panel enclosure with 230/24 VAC power supply, terminal blocks and 5 point distribution terminal block
PA0000009CA0	30 in. x 42 in. x 6-5/8 in. IP32 rated panel enclosure with 230/24 VAC power supply, terminal blocks and 5 point distribution terminal block

230/24 VAC Metasys® Panels (Continued)

Technical Specifications

230/24 VAC *Metasys* Series Control Panels	
Terminals	5/32 in. (4 mm) wire slots (if applicable)
Wiring	If applicable, all components are pre-wired to NAE, NCE, FEC and IOM terminal blocks.
Wire Size	Ground wire: 14 AWG; 24 VAC Controller wires: 18 AWG
Enclosure Rating	IP32/NEMA 3R
Enclosure Finish	ANSI 61 gray polyester powder coating (perforated panel and enclosure)
Ambient Operating Condition	32 to 122°F (0 to 50°C) 10 to 90% RH
Weight	50 lb (22.7 kg) to 90 lb (40.8 kg)
Ambient Storage Condition	-40 to 158°F (-40 to 70°C) 5 to 95% RH