## Description

The EasyIO® FS Series high performance network controller control panel is a pre-wired, preassembled standard control panel that contains an EasyIO FS Series controller. This predesigned solution saves time and money because you avoid expensive and time-consuming field installations. You can also tailor the assembly to a variety of common applications for additional savings. The control panel is shipped complete, mounted in a NEMA 1 steel enclosure. In addition to the controllers, every assembly contains a power supply that incorporates a 5 A circuit breaker, a 96 VA 120/24 VAC transformer, and two 120 VAC outlets. Some models include an optional second 96 VA 120/24 VAC transformer. The EasyIO FS Series Standard Control Panel Assembly also includes a five- or ten-point 24 VAC distribution terminal block that facilitates the termination of additional field mounted devices. All models have an EasyIO FS-32 or EasyIO FS-20 controller, which communicates through BACnet IP/MSTP, Modbus, Sox, MQTT, and RESTful API. Some models offer additional space in the panel to mount relays, transducers, or other approved ancillary devices.

For additional NEMA ratings, enclosure materials, and customizations, contact the Custom Panel Group at BE-CustomPanelGroup@jci.com.

## Features

- Consistent layout for all standard control panel solutions simplifies installation and commissioning

- Power supply with resettable circuit breaker and transformer provides high- and low-voltage protection

- Space and DIN rail reserved for future component additions facilitates easy field upgrades to the panel

- Prebuilt, pre-wired, and pretested in an ISO-9001-2015 manufacturing facility that provides products of consistently high quality

- UL 508A rated control panel and UL 50 approved enclosure meets local and national code requirements for the United States and Canada, cULus listed.

- Controller with color-coded and clearly labeled screw terminals provides easily identifiable input and output points

## Repair information

If the EasyIO FS Series Standard Control Panel Assembly fails to operate within its specifications, replace the unit. For a replacement assembly, contact the nearest Johnson Controls representative.

# Components included with the EasyIO FS Series Standard Control Panel Assembly

**Table 1: Components included with the EasyIO FS Series Standard Control Panel Assembly**

| Quantity | Description |
|---|---|
| 1 | Metal enclosure, NEMA 1 |
| 1 | EasyIO-FS-32, EasyIO-FS-20 programmable controller |
| 1 | 96 VA 120/24 VAC power supply with 5 A primary circuit protection and two 120 VAC outlets, standard on all panels |
| 1 | 96 VA 120/24 VAC transformer with secondary protection |
| 1 | Five or ten-point 24 VAC distribution terminal block<br><br>ⓘ **Note:** All panels with a single power supply are provided with a five-point terminal block. Panels with an additional transformer are provided with a ten-point terminal block. |

# Selection charts

**Table 2: Panels - 16 x 20 enclosure - NEMA 1**

| Product code number | Description |
|---|---|
| P2AAN-KA001NA1 | Control panel, 16.00 in. x 20.00 in. x 6.50 in. enclosure, EasyIO FS-20 controller, 120/ 24 VAC power supply with five port network switch |
| P2AAN-KB001NA1 | Control panel, 16.00 in. x 20.00 in. x 6.50 in. enclosure, EasyIO FS-32 controller, 120/ 24 VAC power supply with five port network switch |

**Table 3: Panels - 20 x 24 enclosure NEMA 1**

| Product code number | Description |
|---|---|
| P2BAN-KA001NA1 | Control panel, 20.00 in. x 24.00 in. x 6.50 in. enclosure, EasyIO FS-20 controller, 120/ 24 VAC power supply with five port network switch |
| P2BAN-KB001NA1 | Control panel, 20.00 in. x 24.00 in. x 6.50 in. enclosure, EasyIO FS-32 controller, 120/ 24 VAC power supply with five port network switch |

**Table 4: Panels - 24 x 36 enclosure NEMA 1**

| Product code number | Description |
|---|---|
| P2DAN-KA002NA1 | Control panel, 24.00 in. x 36.00 in. x 6.50 in. enclosure, EasyIO FS-20 controller, 120/ 24 VAC power supply and 96 VA transformer with 10 point distribution block and five port network switch |
| P2DAN-KB002NA1 | Control panel, 24.00 in. x 36.00 in. x 6.50 in. enclosure, EasyIO FS-32 controller, 120/ 24 VAC power supply and 96 VA transformer with 10 point distribution block and five port network switch |

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# Technical specifications

**Table 5: Technical specifications**

| Specification | Description |
|---|---|
| Terminals | Controller mounted removable screw termination |
| Wire size | Ground wire: 14 AWG; Transformer wires: 16 AWG, Ground wire: 14 AWG; Transformer wires: 16 AWG |
| Enclosure rating | NEMA 1 |
| Enclosure finish | ANSI 61 gray polyester powder coating for the perforated panel and enclosure |
| Ambient operating condition | 32°F to 122°F (0°C to 50°C). 10% to 90% RH |
| Dimensions (width x height x depth) | • 16 in. W x 20 in. H x 6-5/8 in. D (406 mm W x 508 mm H x 168 mm D)<br>• 20 in. W x 24 in. H x 6-5/8 in. D (508 mm W x 610 mm H x 168 mm D)<br>• 24 in. W x 36 in. H x 6-5/8 in. D (610 mm W x 914 mm H x 168 mm D) |
| Weights | • P2AAN-Kx001NA1 38 lbs<br>• P2BAN-Kx001NA1 48 lbs<br>• P2DAN-Kx002NA1 88 lbs |
| Ambient storage condition | -4°F to 176°F (-20°C to 80°C) 5% to 95% RH |
| Agency compliance | Control Panel: UL 508A, UL50 Rated Enclosure, cUL -CAN/CSA C22.2 No. 14-05 |

## Patents

Patents: https://jcipat.com

## Product warranty

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

## Single point of contact

| APAC | Europe | NA/SA |
|---|---|---|
| JOHNSON CONTROLS<br>C/O CONTROLS PRODUCT MANAGEMENT<br>NO. 32 CHANGJIJANG RD NEW DISTRICT<br>WUXI JIANGSU PROVINCE 214028<br>CHINA | JOHNSON CONTROLS<br>WESTENDHOF 3<br>45143 ESSEN<br>GERMANY | JOHNSON CONTROLS<br>507 E MICHIGAN ST<br>MILWAUKEE WI 53202<br>USA |

## Contact information

Contact your local branch office: www.johnsoncontrols.com/locations

Contact Johnson Controls: www.johnsoncontrols.com/contact-us

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