

FX-PCG/FX-PCX Standard Control Panel Assembly

Description

The FX-PCG/FX-PCX Series control panel is a pre-wired, preassembled standard control panel and enclosure that contains an FX-PCG General Purpose Programmable Controller and optional FX-PCX Expansion Input/Output Module. Such a predesigned solution saves both time and money. In addition, the assembly may be tailored to a variety of common applications for additional savings.

The control panel is shipped complete, mounted in a steel enclosure. In addition to the controller(s), the assembly also contains a power supply incorporating a 5 A circuit breaker, a 96 VA 120/24 VAC transformer, and two 120 VAC outlets; plus an optional second 96 VA 120/24 VAC transformer is available. Noted models are provided with an integral display on the face of the controller or a remote mounted display (FX-DIS1710-0), which is visible on the face of the panel. Space is reserved in the panel for the addition of relays and/or transducers, if desired.

Noted models contain low-voltage terminal blocks that are pre-wired and prelabeled to match every terminal on the controller, making installation, commissioning, and servicing quicker and easier. Panels without an FX-PCG and FX-PCX terminal block assembly are provided with a five- or ten-point 24 VAC distribution terminal block that allows for termination of additional field-mounted devices.

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 reserved for future component additions — allows easy upgrading to a standard-plus control panel
- prebuilt, pre-wired, and pretested in an ISO-9002 manufacturing facility — provides products of consistently high quality



FX-PC Series Panel (16 X 20 Inches)

- UL 508A rated control panel and UL 50, Canadian Standards Association (CSA) approved enclosure — meets local and national code requirements for the United States and Canada (cULus listed)
- color-coded and clearly labeled terminations and wiring (if applicable) — ensures easily and properly identifiable input/output points at the controller

Repair Information

If the FX-PCG/FX-PCX control panel assembly fails to operate within its specifications, contact the nearest Johnson Controls® representative.

Components Included with the FX-PCG/FX-PCX Standard Control Panel Assembly

| Quantity | Description |
|----------|---|
| 1 | Metal Enclosure, Type 1, with slotted flush latch |
| 1 or 2 | FX-PCG General Purpose Programmable Controller and FX-PCX Expansion I/O Module. See Selection Chart for exact models. |
| 1 | FX-DIS1710-0 remote mount display (if applicable) |
| 1 | 96 VA 120/24 VAC power supply with 5 A primary circuit protection and two 120 VAC outlets |
| 1 | 96 VA 120/24 VAC transformer with secondary protection (if applicable) |
| 1 | FX-PCG terminal block assembly (if applicable) |
| 1 | FX-PCX terminal block assembly (if applicable) |
| 1 | Five- or ten-point 24 VAC distribution terminal block ¹ |

1. Panels that have the 24 VAC distribution block and a single power supply ship with the five-point distribution block. Panels with an additional transformer ship with a ten-point distribution block.

Selection Charts

Panels – 16 x 20 Inch Enclosure (Part 1 of 2)

| Product Code Number | Description |
|---------------------|---|
| PAYA00001FH0 | FX-PCG1611-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman® enclosure |
| PAYA00001FH4 | FX-PCG1611-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman enclosure with remote mount display |
| PAYB00001FH0 | FX-PCG2611-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman enclosure |
| PAYB00001FH4 | FX-PCG2611-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman enclosure with remote mount display |
| PAYC00001FH0 | FX-PCG1621-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman enclosure with integral display |
| PAYD00001FH0 | FX-PCG2621-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman enclosure with integral display |
| PAZA00001FH0 | FX-PCX1711-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman® enclosure |
| PAZB00001FH0 | FX-PCX2711-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman enclosure |
| PAZC00001FH0 | FX-PCX3711-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman® enclosure |

FX-PCG/FX-PCX Standard Control Panel Assembly (Continued)

Panels – 16 x 20 Inch Enclosure (Part 2 of 2)

| Product Code Number | Description |
|---------------------|--|
| PAZD00001FH0 | FX-PCX4711-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman® enclosure |
| PAZF00001FH0 | FX-PCX2721-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman enclosure |
| PAZG00001FH0 | FX-PCX3721-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman enclosure |
| PAZH00001FH0 | FX-PCX3731-0 panel mounted in a 16 in. W x 20 in. H x 6-5/8 in. D Hoffman enclosure |

Panels – 20 x 24 Inch Enclosure

| Product Code Number | Description |
|---------------------|--|
| PAYA00001AH0 | FX-PCG1611-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman® enclosure |
| PAYAZA001AH0 | FX-PCG1611-0 and FX-PCX1711-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in D Hoffman enclosure |
| PAYAZB002AH0 | FX-PCG1611-0 and FX-PCX2711-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYAZC002AH0 | FX-PCG1611-0 and FX-PCX3711-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYAZD002AH0 | FX-PCG1611-0 and FX-PCX4711-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYB00001AH0 | FX-PCG2611-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure |
| PAYB00002AH0 | FX-PCG2611-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYB00001AH4 | FX-PCG2611-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with remote mount display |
| PAYBZA001AH0 | FX-PCG2611-0 and FXPCX1711-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure |
| PAYBZB002AH0 | FX-PCG2611-0 and FX-PCG2711-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYBZC002AH0 | FX-PCG2611-0 and FX-PCX3711-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYBZD002AH0 | FX-PCG2611-0 and FX-PCX4711-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYD00001AH0 | FX-PCG2621-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with integral display |
| PAYBZF002AH0 | FX-PCX2611-0 and FX-PCX2721-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYBZG002AH0 | FX-PCX2611-0 and FX-PCX3721-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYBZH002AH0 | FX-PCX2611-0 and FX-PCX3731-0 panel mounted in a 20 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |

Panels – 24 x 24 Inch Enclosure

| Product Code Number | Description |
|---------------------|---|
| PAYA00011EH0 | FX-PCG1611-0 panel mounted in a 24 in. W x 24 in. H x 6-5/8 in. D Hoffman® enclosure with terminal blocks |
| PAYB00011EH0 | FX-PCG2611-0 panel mounted in a 24 in. W x 24 in. H x 6-5/8 in. D Hoffman enclosure with terminal block |

Panels – 24 x 36 Inch Enclosure (Part 1 of 2)

| Product Code Number | Description |
|---------------------|--|
| PAYA00001BH0 | FX-PCG1611-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman® enclosure |
| PAYA00001BH4 | FX-PCG1611-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in D Hoffman enclosure with remote mount display |
| PAYAZA001BH0 | FX-PCG1611-0 and FX-PCX1711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure |
| PAYAZB002BH0 | FX-PCG1611-0 and FX-PCX2711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYAZC002BH0 | FX-PCG1611-0 and FX-PCX3711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYAZD002BH0 | FX-PCG1611-0 and FX-PCX4711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYB00001BH0 | FX-PCG2611-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure |
| PAYB00001BH4 | FX-PCG2611-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with remote mount display |
| PAYBZA001BH0 | FX-PCG2611-0 and FX-PCX1711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure |
| PAYBZB002BH0 | FX-PCG2611-0 and FX-PCX2711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYBZC002BH0 | FX-PCG2611-0 and FX-PCX3711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |

FX-PCG/FX-PCX Standard Control Panel Assembly (Continued)

Panels – 24 x 36 Inch Enclosure (Part 2 of 2)

| Product Code Number | Description |
|---------------------|--|
| PAYBZD002BH0 | FX-PCG2611-0 and FX-PCX4711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYBZD002BH4 | FX-PCG2611-0 and FX-PCX4711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer with remote mount display |
| PAYBZE002BH0 | FX-PCG2611-0 and FX-PCX1711-0 and FX-PCX4711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYC00001BH0 | FX-PCG1621-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with integral display |
| PAYD00001BH0 | FX-PCG2621-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with integral display |
| PAYA00011BH0 | FX-PCG1611-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with terminal blocks |
| PAYAZA011BH0 | FX-PCG1611-0 and FX-PCX1711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with terminal blocks |
| PAYAZB012BH0 | FX-PCG1611-0 and FX-PCX2711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer and terminal blocks |
| PAYAZC012BH0 | FX-PCG1611-0 and FX-PCX3711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer and terminal blocks |
| PAYAZD012BH0 | FX-PCG1611-0 and FX-PCX4711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer and terminal blocks |
| PAYB00011BH0 | FX-PCG2611-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with terminal blocks |
| PAYBZA011BH0 | FX-PCG2611-0 and FX-PCX1711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with terminal blocks |
| PAYBZB012BH0 | FX-PCG2611-0 and FX-PCX2711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer and terminal blocks |
| PAYBZC012BH0 | FX-PCG2611-0 and FX-PCX3711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer and terminal blocks |
| PAYBZD012BH0 | FX-PCG2611-0 and FX-PCX4711-0 panel mounted in 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer and terminal blocks |
| PAYBZF002BH0 | FX-PCX2611-0 and FX-PCX2721-0 panel mounted in a 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYBZG002BH0 | FX-PCX2611-0 and FX-PCX3721-0 panel mounted in a 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |
| PAYBZH002BH0 | FX-PCX2611-0 and FX-PCX3731-0 panel mounted in a 24 in. W x 36 in. H x 6-5/8 in. D Hoffman enclosure with additional 96 VA transformer |

Technical Specifications

| FX-PCG/FX-PCX Standard Control Panel Assembly | |
|---|---|
| Terminals | 5/32 in. (4 mm) wire slots (if applicable) |
| Wiring | If applicable, all components are pre-wired to FEC and IOM terminal blocks. |
| Wire Size | Ground wire: 14 AWG; 24 VAC Controller wires: 18 AWG |
| Enclosure Rating | Type 1 |
| 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 |
| Dimensions (Width x Height x Depth) | Hoffman Standard Enclosure: 24 in. W x 36 in. H x 6-5/8 in. D (610 mm W x 914 mm H x 168 mm D) |
| Weight | 90 lb (40.8 kg) |
| Ambient Storage Condition | -40 to 158°F (-40 to 70°C) 5 to 95% RH |
| Agency Compliance | Control Panel: UL 508A Rated (cULus listed); Enclosure UL 50 Rated, CSA Approved |