

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