

## Description

The FCP Non-Programmable and FCP 7-Day Programmable Fan Coil Unit (FCU) or Packaged Terminal Air Conditioner Unit (PTAC) Thermostats provide simple-to-use control of 2-pipe or 4-pipe FCU or PTAC. These thermostats provide on/off control, up to three speeds of fan control, and dry contact unoccupied or occupied control. Use the thermostats as stand-alone devices in commercial buildings, such as schools, offices, and hotels, and to provide access to parameters such as system mode, fan mode, and temperature setpoints.

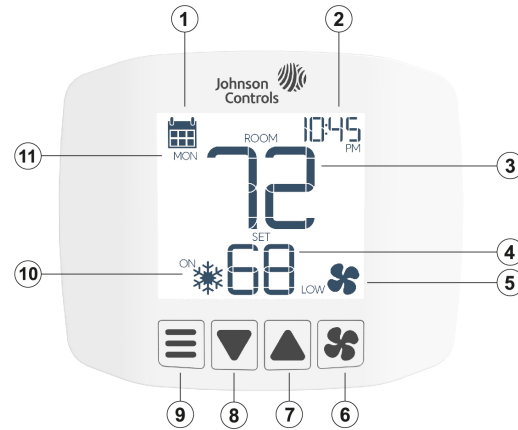
The FCP Thermostats feature a quick setup menu, are prewired for fast installation, and are Johnson Controls® 10k ohm negative temperature coefficient (NTC) Type II and Type III remote sensor ready (order separately). You can equip the FCP Thermostats with a remote temperature sensor, remote pipe sensor, and a remote wired occupancy sensor to enable flexible options. Flexible options include 2-pipe FCU heat/cool switchover or pipe sensor for automatic switching. The large display with adjustable backlight makes it easy to optimize user preferences. In addition, both FCP Thermostat models include min and max temperature protection, key pad lockout, occupied and unoccupied modes.

**Figure 1: FCP Thermostat**



## Product overview

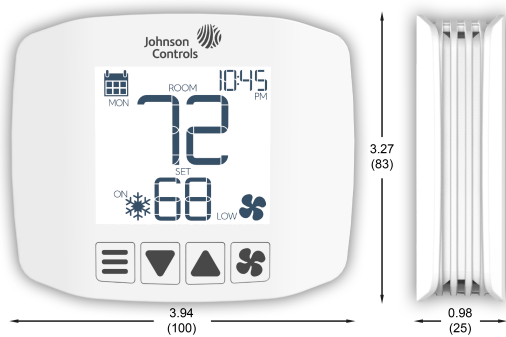
**Figure 2: FCP Thermostat**



**Table 1: FCP Thermostat UI call outs**

Feature	Description
1	Schedule, available only on FCP-PA-701
2	Time, available only on FCP-PA-701
3	Room temperature
4	Temperature setpoint
5	Fan speed
6	Fan
7	Up
8	Down
9	Mode
10	Cool or heat indication
11	Day, available only on FCP-PA-701

**Figure 3: FCP Thermostat dimensions, in. (mm)**



## Features and benefits

- Compatible with 2-pipe and 4-pipe FCU with up to a 3-speed fan, conventional PTAC, and heat pump PTAC with or without auxiliary heat
- Pre-installed lead wires for fast installation
- Pre-set installer and user configurations—Configure your thermostat easily with 20 pre-set installations
- Configurable normally open (NO)/normally closed (NC) contact to set the occupied or unoccupied mode
- Onboard and remote temperature sensor available
- White LED backlight—Adjustable brightness for easy operation in the dark
- FCP-PA-701 features up to six programmable periods per day
- FCP-PA-701 features battery backup—RTC backup with a minimum backup time of 48 hours
- Temperature in °F or °C

## Applications

The FCP Thermostat is compatible with most 24 VAC FCU or PTAC applications.

The following list shows the compatible configurations of the equipment:

- 2-Pipe with up to a 3-speed fan
- 4-Pipe with up to a 3-speed fan
- Conventional PTAC
- Heat pump PTAC with or without auxiliary heat

## Ordering information

**Table 2: FCP digital room thermostat for fan coil or PTAC selection chart**

Product code number	Non-programmable/programmable	Backup battery for RTC	Johnson Controls logo	Color
FCP-NA-701-N	Non-programmable	No	No	White
FCP-NA-701-B	Non-programmable	No	Yes	White
FCP-PA-701-N	7-day programmable	Yes	No	White
FCP-PA-701-B	7-day programmable	Yes	Yes	White

The FCP Thermostat ships from the factory with a Quick Start Guide, four mounting screws, one lock screw, seven pre-installed terminal wires, and one wire label. The FCP-PA-701 also includes one coin cell battery.

## Technical specifications

**Table 3: FCP non-programmable and programmable FCU or PTAC Thermostats technical specifications**

Specification	Description
Models	Non-programmable: FCP-NA-701-N, FCP-NA-701-B Programmable: FCP-PA-701-N, FCP-PA-701-B
Power requirements	20 VAC to 30 VAC, 60 Hz, max. 3 A (3 VA at 24 V nominal)
Output rating	Valve and fan outputs 1 A maximum per each relay channel (Max. relays ON combination: 3 relays), 20 VAC to 30 VAC
Analog inputs	Remote sensor 10K ohm at 77°F (25°C) NTC sensor Pipe sensor 10K ohm at 77°F (25°C) NTC sensor Set back NC/NO dry contact switch
Local temperature sensor type	NTC temperature sensor, accurate to ±1°F (±0.6°C) at 77°F (25°C)
Remote temperature sensor type	NTC temperature sensor, accurate to ±2°F (±1.2°C) at 70°F (21°C)
Wire size	18 AWG (100 ft [30.5 m] maximum) to 24 AWG (36 ft [11 m] maximum)
Temperature adjustment range	Heat mode 45°F to 90°F (7°C to 32°C) Cool mode 60°F to 95°F (15°C to 35°C)
Accuracy	Local temperature sensor ±1°F (±0.6°C) Remote temperature sensor ±2°F (±1.2°C) at 70°F (21°C) Remote pipe sensor ±5°F (±3.0°C)
Deadband	2°F to 5°F (1°C to 3°C)
Ambient conditions	Operating 14°F to 122°F (-10°C to 50°C); 5% RH to 90% RH, noncondensing Storage -4°F to 140°F (-20°C to 60°C); 5% RH to 90% RH, noncondensing
Disconnection means	Type 1B
Pollution degree	2
Rated impulse voltage	330 V
Automatic Action	100,000 cycles
Ratings for supply and loading	20 VAC to 30 VAC
Dimensions H x W x D	3.27 in. x 3.94 in. x 0.98 in. (83 mm x 100 mm x 25 mm)
Shipping weight	Product with packing and accessories: 10.1 oz (285 g) Thermostat only: 4.9 oz (138 g) Trim plate: 1.2 oz (33 g)
Compliance	ETL/cETL Listed, Mexico NOM Conforms to UL STD. 60730-1 & 60730-2-9 Certified to CSA STD. E60730-1 & E60730-2-9

*The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Johnson Controls office. Johnson Controls shall not be liable for damages resulting from misapplication or misuse of its products.*

## Repair information

If the FCP Thermostat fails to operate within its specifications, replace the unit. For a replacement

thermostat, contact the nearest Johnson Controls representative.

## **Product warranty**

This product is covered by a limited warranty, details of which can be found at [www.johnsoncontrols.com/buildingswarranty](http://www.johnsoncontrols.com/buildingswarranty).

## **Patents**

Patents: <https://jciapat.com>

## **Contact information**

Contact your local branch office:  
[www.johnsoncontrols.com/locations](http://www.johnsoncontrols.com/locations)

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