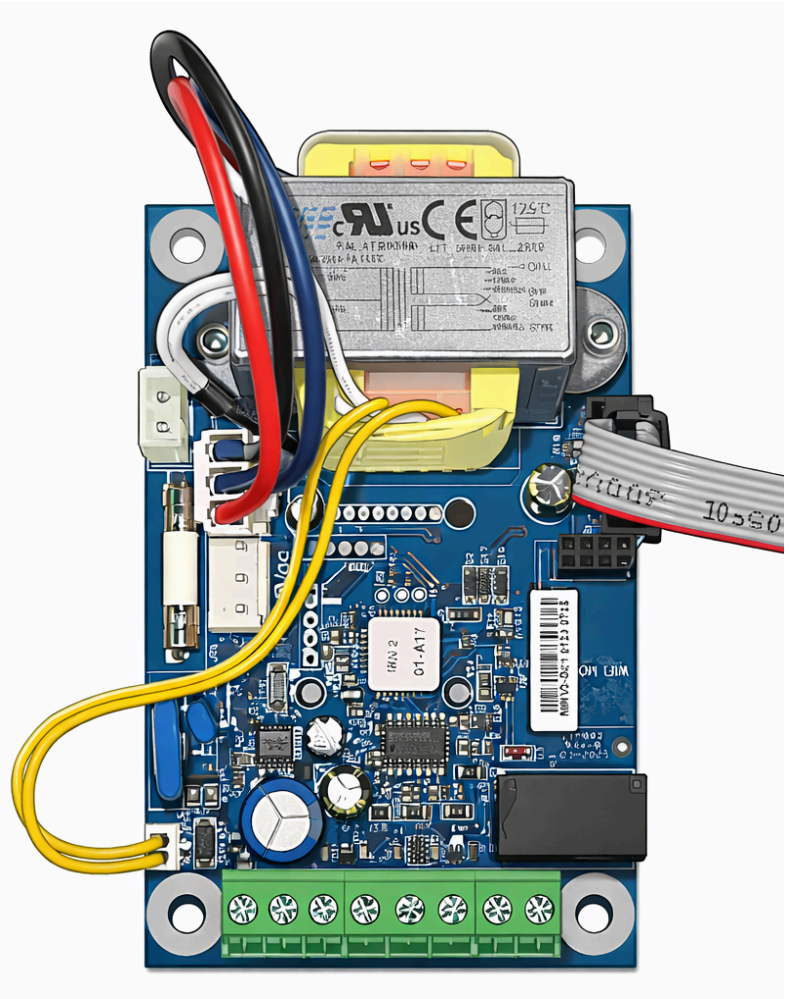
AIO® Third-Party Thermostat Gateway (TPG015)

Product Data Sheet



ephoca

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⚠ WARNING

Only qualified professionals should install and service this equipment. Improper installation or modification by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the installation manual and labels attached to the equipment.

REVISION HISTORY

Rev	Date	Revised By	Changes
A	2026-03-30	Leah Kuber	Reorganize sections and add the note about temperature setpoints.
B	2026-04-15	Leah Kuber	Minor technical corrections. No change to pagination.

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1. AIO® TPG015 THIRD-PARTY THERMOSTAT GATEWAY

The TPG015 third-party thermostat gateway enables the user to control AIO® Heat Pump units with any standard or smart thermostat. The AIO®'s Brushless DC (BLDC) inverter compressor cannot be controlled by a standard or smart thermostat, which simply sends an on-off signal. The Third-Party Gateway (TPG) sends signals from the connected standard or smart thermostat to the AIO®'s processor, which then controls the inverter compressor.

Note: This gateway board must be field-installed and connected inside the AIO® unit by an electrician or technician. Installation takes approximately 15 minutes.

1.1 AIO® TPG015 Submittal

Job	Reference
Construction	Location
Approval	Quote Number
Engineer	Date
Drawing Number	P.O. Number:
Submitted To	Submitted By:

2. FEATURES

- **Thermostats:** The TPG015 gateway is intended to support third-party thermostat controllers.
- **Note:** When the TPG015 gateway is connected to a third-party controller, the AIO® unit display will show 61F (16C) in cooling mode and 88F (31C) in heating mode, regardless of the actual setpoint. These numbers only indicate that the unit is active. The actual temperature set point is displayed on the thermostat.
- **Wi-Fi connectivity:** Enables control via an additional module (not included) that is connected to a dedicated app for smartphones, tablets, and computers.
- **Temperature control:** Enables controlling the temperature setpoint in one-degree increments.
- **Modes:** Supports Cooling, Heating, and Fan Only modes.
- **Fan speeds:** Supports Low, Medium, and High fan speeds.
- **Smart thermostats:** Supports smart thermostat features for timers, controls, etc.

3. SPECIFICATIONS

- **Power supply:** Operates on either 115V or 230V AC, 50/60 Hz, selected via a connector on the gateway board.
- **Power consumption:** 4.8 watts.
- **Operating environment:** Functional between 40°F (4.4°C) and 158°F (70°C).
- **Storage environment:** Stable between 0°F (-17.8°C) and 158°F (70°C) at 90% relative humidity (non-condensing).
- **Fuse protection:** 0.3 amp ceramic fuse.
- **Supported temperature set points:** 61°F - 88°F (16.1°C - 31.1°C).
- **Thermostat connections:**
  - R, C, Y, W, G1, G2, and G3 terminals (G1 = High Fan, G2 = Medium Fan, G3 = Low Fan).
  - 24V power terminal.
- **Dimensions:**
  - Width: 2.65" (67.3 mm)
  - Length: 3.54" (89.9 mm)
  - Height: 1.5" (38.1 mm)
  - Weight: 0.5 lb. (0.2 kg)
- **Warranty:** Two-year limited warranty.

4. WIRING AND INSTALLATION

The TPG015 third-party thermostat gateway board includes two cables that are pre-attached to the gateway board:

- **Communication Cable (flat ribbon gray):** For connecting the TPG015 board to the air conditioning control system in compatible AIO® units.
- **Power Cable (black):** For supplying power from the unit.

4.1 AIO® unit compatibility

The TPG015 gateway can be installed in the following AIO® units:

- AIO® Wall Mounted Standard/Pro (Gen 1 only)
- AIO® Ceiling Ducted (with and without ERV)
- AIO® Ceiling Suspended (with and without ERV option)
- AIO® Vertical Stack
- AIO® Vertical Stack XL

The TPG015 is not compatible with AIO® Wall Mounted (Gen 2+) units.

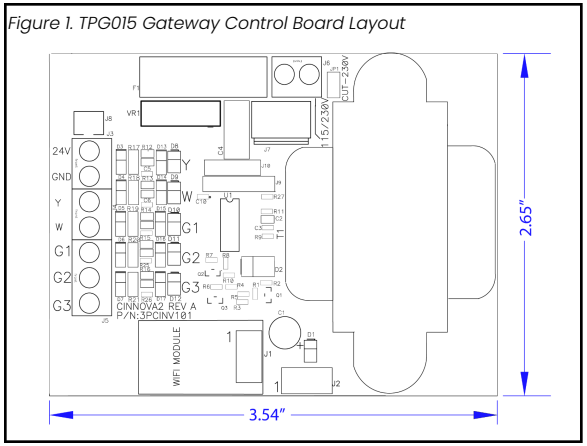
4.2 Installation instructions

- The installer must connect the communication cable to the controller panel of the AIO® unit.
- In some models, installers must connect the power cable from the TPG015 board to terminals on the electrical panel of the unit.
- In newer models, the power cable is pre-installed within the AIO® unit and only needs to be connected to the gateway. In this case, the power cable on the gateway is not used.

For complete installation instructions for each type of unit, refer to the AIO® Third-Party Thermostat Gateway (TPG015) Installation Guide.

5. LAYOUT

Figure 1. TPG015 Gateway Control Board Layout



With over 20 years of experience in the climate comfort sector, we have a clear goal: growth through innovation. Our team is laser-focused on the conception, development, and production of innovative heating, ventilation, and air conditioning solutions. This mission has developed through bringing together technical skills, creativity, technology, design, Italian passion, and a global vision to achieve the best energy efficiency and performance.

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MADE IN ITALY

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