

Wireless Temperature sensor & IoT Interface

for Panasonic



This product must only be installed by authorised and qualified personnel. For your own safety and to prevent damage to the product, always disconnect power from the entire system.

Introduction - Applications

The Climate Control adapter offers two primary applications:

1. External temperature sensor to increase comfort.
2. Internet of Things (IoT) bridge for home automation systems such as Home Assistant.

If you only want to use the wireless sensor functionality, you can skip sections 3, 4, and 5. The IoT-Only version of the interface module does not have wireless sensor functionality.

1. Basic Installation

The Climate Control adapter connects to the CN-CNT port on the indoor unit. If a Wi-Fi adapter is already installed, it is usually located on a different port and can remain in place.

Locate the CN-TH connector for the interface with wireless temperature sensor functionality. The supplied 6-pin cable connects in between the main board and the red cable that was already in this connector. More information see “**CN-TH Connector for wireless thermometer.**”

2. Set up the wireless temperature sensor

Before use, the wireless temperature sensor must be paired with the Climate Control adapter. If you are not using the web interface or IoT application, you can pair the sensor using the "LINK" button on the adapter.

Follow these steps:

1. Temporarily place the sensor close to the Climate Control adapter.
2. Press the “PAIR” button once. The “LINK” indicator will now blink blue.
3. The adapter will search for the wireless sensors for 30 seconds and automatically pair with the sensor with the strongest signal.

By default there is a 2 degree offset in the indoor unit (“Heat mode thermo shift adjustment” setting 58). This needs to be set to -2. If not changed, the indoor units will heat 2 degrees above its setpoint.

3. Wi-Fi connection for IoT, firmware updates, and the web user interface

The Climate Control adapter must be connected to a 2.4 GHz Wi-Fi network to use automatic firmware updates, IoT connectivity, or the web user interface. This can be done in two ways:

Wi-Fi Protected Setup (WPS)

1. Apply power to the AC
2. Wait until the LED transits from fading green till solid orange.
3. Short press the RST button. The LED will start blinking orange.
4. Press the WPS button on your router.
5. After about 20 seconds the LED on the Control module will transit to constant white, indicating a successful connection.

Accesspoint mode

1. Apply power to the AC
2. Wait until the LED transits from fading green till solid orange.
3. A new network can be found under the name “Heatpump - XXXXXX” or “Factory - XXXXXX”. Then a password is being requested, use “connectodevice”.
4. Go to <http://10.0.0.1> in your browser. Turn off LTE/5G on your mobile device if you connect using your smartphone.
5. Fill in your wifi details and save the settings. The module will now apply a firmware update and is ready to use when the color of the LED transits to solid white.

4. Web User Interface

The Control Adapter has its own web user interface where you can adjust settings, control the air conditioner, and view diagnostic information.

This interface can be accessed locally via <http://heatpump.local> or via <https://www.protoart.net/dashboard>








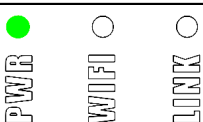
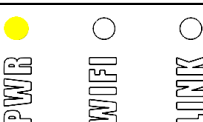


5. Home Automation Software

The Climate Control Adapter supports an HTTP GET API and MQTT connectivity. This allows you to automate the air conditioner via platforms such as Home Assistant or other home automation systems.

Visit our website for more information and a complete list of available commands.

<https://www.protoart.net>

7. LED Status Indicators

	<ul style="list-style-type: none"> No sensor connected 		<ul style="list-style-type: none"> Battery empty Weak signal
	<ul style="list-style-type: none"> Searching sensor 		<ul style="list-style-type: none"> Sensor active.
	<ul style="list-style-type: none"> No wifi connection Accesspoint mode 		<ul style="list-style-type: none"> Connected with wifi
	<ul style="list-style-type: none"> WPA mode active 		
	<ul style="list-style-type: none"> Connected with heatpump 		<ul style="list-style-type: none"> Not connected with heatpump, check wiring
	<ul style="list-style-type: none"> Factory mode 		<ul style="list-style-type: none"> Firmware update in progress

The LED indication can be disabled via the web user interface.

CN-TH Connector for wireless thermometer.

Check the service manual of your indoor unit for the location of the CN-TH connector. This connector should correspond with below schematic.

