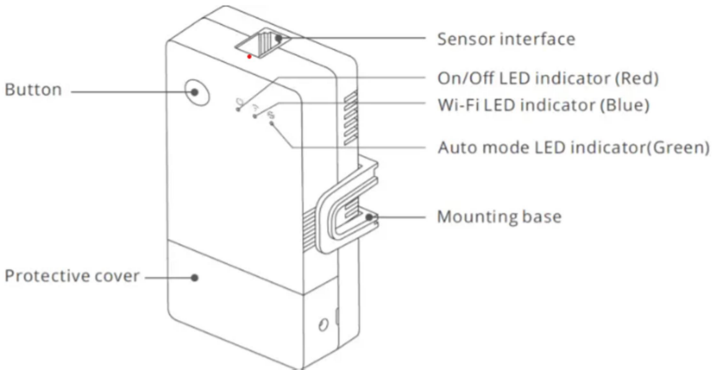
Wi-Fi Temperature Controller

Downloading the App

1. **Download eWeLink App** on your smartphone.
   - Available on Android Play Store or iOS App Store as eWeLink Smart Home Control.
2. **Register Your Account**:
   - Use your **email** to register.
   - A **verification code** will be sent to your email. Enter this code to complete registration & log in.

Pairing the Device



1. **Ensure Strong Wi-Fi Signal**:
   - Make sure you are close to your **Wi-Fi router**.
   - **Disable VPN** temporarily if in use.
2. **Open the eWeLink App**:
   - Plug in the **DTH101-NP receiver**. The LED will blink **two short and one long flash** repeatedly, indicating it is ready for pairing.
   - Make sure the **Bluetooth** is on.
   - Enter your **Wi-Fi ID and password** and click **Next**.
   - After finding the device (will take less than **one minute), select add** + .and then click next. You can name and share the device after successful pairing. A **solid blue LED** indicates the device is online.
3. **Troubleshooting Pairing Issues**:
   - If pairing does not complete within **1-3 minutes**, the device will exit pairing mode.
   - To restart pairing, press and hold the button on DTH101-NP for **4-7 seconds** until the LED blinks **two short and one long flash**.
   - If pairing still fails or shows **"Offline"**, refer to the **Problems & Solutions** section.

Testing Device Functionality

- After pairing, you should hear a **clicking sound** when turning the switch **ON/OFF** through the app or manually.
- The button on the **DTH101-NP** can also act as a **manual switch** to control the Gas pool heater.

Features and Functions

1. Remote ON/OFF Control

- Turn your **Gas pool heater ON/OFF** from anywhere using the **eWeLink app** on your smartphone.

2. Professional Timer

- Use the **scheduled, countdown, or loop timer** to turn your Gas pool heater ON/OFF at set times.
- Up to **8 events** can be programmed in the app. Timers will still work even if the internet disconnects from DTH101-NP.

3. Temperature Control

- In **Auto Mode**, monitor real-time temperature and control the Gas pool heater based on set temperature ranges.
- In **Manual Mode**, control the Gas pool heater directly or combine with the timer feature.

4. Multi-User Control

- Share control of the Gas pool heater with multiple smartphones.
- Only the **main user** can add, modify, or delete additional users.

5. Security Mechanism

- No one can add the registered DTH101-NP to another smartphone without the **main user authorization**.
- To transfer the device to a new user, it must first be **deleted** from the main user's app.

6. Firmware Updates

- The app will notify you when **new firmware** is available. Please update promptly for the latest features.

7. Voice Control

- Go to **Device Settings** and select icons for **Alexa, Google Assistant, Alice, or IFTTT** to integrate voice control.

Settings

- Click on the **settings icon…** (top right corner) to:
  - **Edit Device Name and Display Switch**
  - **Update App Version**
  - **Share Device Control** with new users
  - Turn on **Push Notifications** to receive alerts when the Gas pool heater is turned ON/OFF.
  - View **Logs** to check who and when the Gas pool heater was used.
  - Set the **Power-On State** to **ON, OFF, or Last State** (recommended setting: OFF for safety).
  - Enable **Inching Mode** for precise control with duration's time of from **0.5s to 3600s** (works like a countdown timer).
  - Change **Temperature Units** to **Celsius or Fahrenheit**.
  - Save any changes using the **Save Icon**.

Problems and Solutions

1. **Device is Paired but Shows "Offline"**:
   - Ensure DTH101-NP is close to the **Wi-Fi router**. Extend the length of the receiver wires if needed.
   - Restart the **router, smartphone, and DTH101-NP**.
   - If still offline, **delete and re-add** the device.
2. **Cannot Pair DTH101-NP with Smartphone**:
   - Ensure **DTH101-NP** and your smartphone are close to the router.
   - **Disable VPN** on your smartphone temporarily.

- **Delete and reinstall** the eWeLink app.
- Restart the **router, smartphone, and DTH101-NP**.
- Reinstall the app from the **App Store or Google Play**, not from iCloud.
- Enable **Local Network** for the eWeLink app in your phone settings.

Compatible Mode Pairing

- If the above methods don't work, use Compatible Mode as follows:
- Add Device: Click on Compatible Pairing at the bottom left of the page.
- Ensure the LED light is blinking constantly on the device and click Next.
- The next page will prompt you to adjust the settings on your phone to allow eWeLink to access your local network.
- Go back to the eWeLink app and click on Go to Connect.
- Choose ITEAD-xxxxxxxx as the network.
- The password is 12345678.
- After joining the network, return to the eWeLink app.

3. **Blue LED Remains Off**:
   - Check for a **loose connection** or a faulty adapter. Replace the adapter if needed.
   - Ensure the **sensor is connected firmly** by twisting and pushing it into place.
4. **Device Paired but App Doesn't Show Temperature**:
   - Update the **firmware** if the temperature isn't displayed.
   - Ensure the **sensor is connected firmly**.
5. **Gas pool heater Turns On After Power Loss**:
   - Change the **Power-On State** setting to **OFF** to prevent automatic activation after power restoration.
6. **App Doesn't Work Correctly (Red LED On)**:
   - **Update the App** when prompted.

Wiring and Installation

Opening the **DTH101-NP** box will **void the return policy**, and any modifications to its components may pose a **fire hazard**. The device should be installed by a **qualified professional** according to the gas heater manufacturer's manual.

Do not place the device inside the pool heater unit. Instead, locate the **DTH101-NP receiver** in a **waterproof box** or an **indoor location** (special boxes are available in our online store, ThermoMart). You can extend the **2 wires** of the DTH101-NP up to **100 meters**, and also extend the length of the sensor by purchasing a **5-meter wire extension** from ThermoMart. The wiring is the same as typical **2-wire remote controls** for heaters. The following instructions are for assistance only; always follow the manufacturer's manual in the **Remote Control (Fireman Switch)** section.

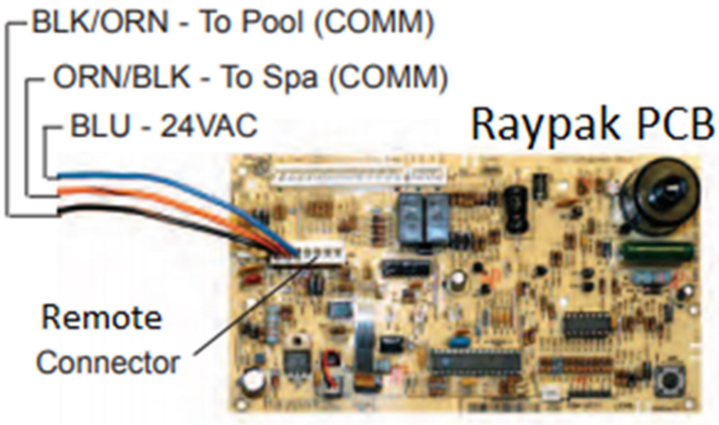
1. Heaters with Remote Function

Most new gas heaters have a **remote control function** on the PCB controller. The **2 wires of the DTH101-NP** have no voltage and act like a switch (**no voltage/no polarity**) to turn the heater **ON or OFF**, ensuring that they do not damage the heater's digital circuit board.

This device has **2 wires** for switching and can control **one heating mode** at a time (either **pool** or **spa**).

Example: Wiring DTH101-NP to a Raypak Gas Heater

1. Press the **Mode** button to select either **POOL** or **SPA** and set the temperature to the **highest setting** on the heater control panel. The actual temperature will be controlled by **DTH101-NP**.
2. Turn the **heater OFF**.
3. Open the gas heater control panel. On the **heater PCB remote connector**, connect the **BLUE wire** to one of the two wires of the **DTH101-NP**, and connect the other wire to either the **ORANGE/BLACK** wire for **SPA** operation or the **BLACK/ORANGE** wire for **POOL** operation. Note that wire colors may vary between manufacturers, so please check the **heater manual**.
4. Secure any **unused wires**, then turn the heater **ON** and **activate the remote function** (refer to the heater manual for activation instructions).



2. Heaters without Remote Function

Older gas heaters without a remote control function operate using a **mechanical thermostat**. In these cases, you can use the **2 wires of the DTH101-NP** to **bypass** or **replace** the existing mechanical thermostat or switch in the circuit. Some heater models may also have a **jumper on the board** for remote control; refer to the **heater manual** for guidance.

Sensor Installation

The **plastic sensor holder** on the sensor is **¼ NPT** and is typically compatible with the **heater drain plug** screw. Use **Teflon tape** to seal the inlet pipe of the heater completely. Alternatively, you can drill and tap a suitable flat area on one of the **inlet pipe connectors** to install the sensor.

If preferred, you can **remove the sensor holder** and attach the sensor directly to the inlet pipe. Make sure to **cover and insulate** it completely to protect it from external weather for accurate temperature readings. You will need **foam insulation pads**, **aluminum foil**, and **duct tape** for insulation. Place a **thick pad of aluminum foil** firmly over the sensor, wrap an insulation pad around the entire area, and secure it tightly with duct tape. Make sure to **remove the sensor** during winter months to prevent damage.

DTH101-NP Wi-Fi Temperature Controller Manual

For current product information, availability, and compatible options, use the verified ThermoMart links below. The preceding pages remain the original manual content.

PRODUCTS USING THIS DOCUMENT

Models: DO-DTH101, DTH101-NP

View all 2 products

All ThermoMart manuals and guides