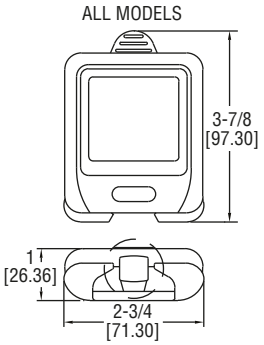
Series DW-WIFI Wireless Wi-Fi Data Logger

Installation and Operating Instructions



The Series DW-WIFI Wireless Wi-Fi Data Logger measures and records up to 1,000,000 temperature and/or humidity readings and shares the data with any PC or server on the same Wi-Fi network. Software settings allow the user to set the high and low alarms, the sampling rate, and the temperature scale. If the Wi-Fi connection is lost, the sensor will continue to store any records until it can regain communication with the network. Stored data can be viewed at any time after the communications have been restored. Each data logger includes a wall bracket that allows the data logger to be mounted to any wall or flat surface.

SOFTWARE INSTALLATION/LOGGER SET-UP

NOTICE The logger will arrive partially charged, but for maximum performance, charge it for 24 hours before the first use.

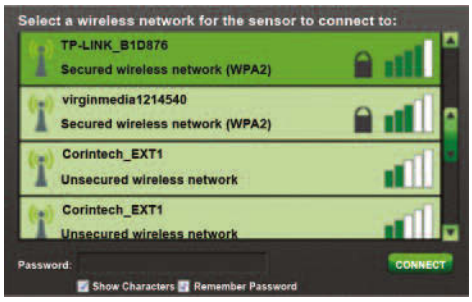
Upon start-up, a reading may be displayed on the LCD; however, the product set-up must be completed in order to connect to a Wi-Fi network.

1. Before connecting the unit, download the free configuration and logging software for this series, which is available on our website, http://www.dwyer-inst.com/DW-USBSoftware.

2. After the software is installed, plug the data logger into the PC's USB port using the supplied cable and open the software.

3. Click on the "Set-Up Sensor" button.

4. Click on your Wi-Fi network and enter your password, if required.



SPECIFICATIONS

Range:
- Temperature:
  - DW-WIFI-T(-HA), DW-WIFI-TH(-HA): -4 to 140°F (-20 to 60°C);
  - DW-WIFI-TP(-HA): -40 to 257°F (-40 to 125°C);
  - DW-WIFI-TC:
    - Supplied K-Type Thermocouple: 32 to 752°F (0 to 400°C);
    - Full Range (Probe Dependent): -454 to 2372°F (-270 to 1300°C);
- Humidity (TH models only): 0 to 100%.

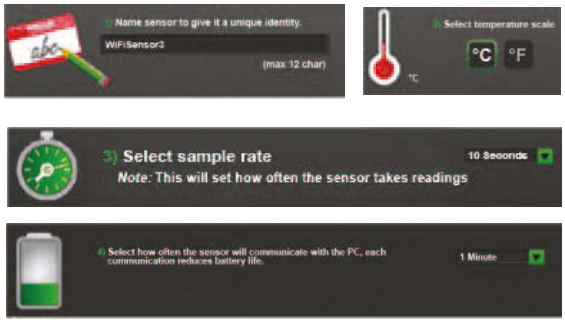
Accuracy (typ.):
- Temperature:
  - DW-WIFI-T: ±1.0°F (±0.5°C) @ 14 to 122°F (-10 to 50°C);
  - DW-WIFI-TH: ±0.6°F (±0.3°C) @ 41 to 140°F (5 to 60°C);
  - DW-WIFI-TP: ±1.2°F (±0.6°C) @ 14 to 158°F (-10 to 70°C);
  - DW-WIFI-TC: ±3.0°F (1.5°C);
  - DW-WIFI-T-HA: ±0.2°F (±0.1°C) @ 14 to 140°F (-10 to 60°C);
  - DW-WIFI-TH-HA: ±0.4°F (±0.2°C) @ 41 to 140°F (5 to 60°C);
  - DW-WIFI-TP-HA: ±0.2°F (±0.1°C) @ 14 to 158°F (-10 to 70°C);
- Humidity (TH models only):
  - DW-WIFI-TH: ±2.5% RH @ 20 to 80% RH;
  - DW-WIFI-TH-HA: ±2.5% RH @ 10 to 90% RH.

Display Resolution:
- Temperature:
  - DW-WIFI-T, DW-WIFI-TP, DW-WIFI-TC: 0.1°F (0.1°C);
  - DW-WIFI-TH(-HA): 0.5°F (0.5°C);
  - DW-WIFI-T-HA, DW-WIFI-TP-HA: 0.01°F (0.01°C).
- Humidity (TH models only): 1.0% RH.

Memory Size: 1,000,000 readings; 500,000 each for DW-WIFI-TH(-HA).
Sampling Mode: Continuous recording.
Sampling Rate: Selectable from 10 s to 12 hrs.
Transmission Rate: Selectable from 1 min to 24 hrs.
Temperature Limits: -4 to 140°F (-20 to 60°C).
Power Requirements: 4.5 to 5.5 VDC; (1) 3.7 V rechargeable lithium ion battery, installed functional, factory replaceable (cable for charging included).
Alarms: Programmable high/low.
Interface: Wi-Fi connection.
Probe Length:
- DW-WIFI-TP: 11.8 in (30 cm);
- DW-WIFI-TC: 59 in (150 cm).

Weight: 7.2 oz (204 g).
Agency Approvals: CE, RoHS.

5. Name your logger and select the temperature scale, sample rate, and transmission rate.



6. Set high and low alarms.

DISPLAY

On the home screen, the models show the current temperature and humidity reading. Models DW-WIFI-T, DW-WIFI-TP, and DW-WIFI-TC display the temperature only. DW-WIFI-TH displays temperature and humidity on the same screen.

By pressing the button, the logger will cycle through the different screens, which are:

1. Home Screen – Current temperature and/or humidity
2. Maximum Recorded Value
3. Minimum Recorded Value
4. Signal Strength
5. Data Syncing

To view detailed information and graphical data, open the configuration software and click on the “View Sensors” icon.

Other icons shown on the home screen include network connection, alarm, max/min, and battery.

Network Connection:

Not Displayed: The logger has not yet been set up and configured to a Wi-Fi network.
Flashing: The logger is not communicating with the software.
Solid: The logger is successfully communicating with the software.

Max/Min:

Shown on their respective pages.
Both are displayed on home page.

Battery:

Not Displayed: Battery is okay.
Flashing: Battery is low.
Solid: Battery is charging.

CHANGING DATA LOGGER SETTINGS

NOTICE Settings can be adjusted while connected to the PC or over Wi-Fi.

Open the software package and click on the “View Sensors” icon. Select the logger you would like to modify settings for and click on the “Adjust Sensor Settings” icon. The software will guide you through the options that can be altered.

RECHARGING THE BATTERY

When recharging the battery, connect the data logger to a PC or a 5V power adapter via the provided USB cable. The battery icon will disappear when the logger is fully charged.

REPLACING THE BATTERY

If the battery must be replaced, it is required that it be sent to the factory for replacement. The battery must not be in the unit when it is sent back. Please follow these directions to remove the battery.

1. Using a size T6 torx screwdriver, remove the four hex screws from each corner.
2. Remove the back piece, being careful not to tear the white ribbon connecting the circuit board to the back piece.
3. The battery is connected to the circuit board via a red and a black cord that are plugged into CON1. Carefully disconnect the battery and dispose as appropriate.
4. Reassemble the housing as before.
5. Contact customer service to receive a Return Goods Authorization number before shipping the product back for battery replacement.

MAINTENANCE/REPAIR

Upon final installation of the Series DW-WIFI, no routine maintenance is required. The Series DW-WIFI is not field serviceable and should be returned if repair is needed. Field repair should not be attempted and may void warranty.

WARRANTY/RETURN

Refer to “Terms and Conditions of Sale” in our catalog and on our website. Contact customer service to receive a Return Goods Authorization number before shipping the product back for repair. Be sure to include a brief description of the problem plus any additional application notes.

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