

DP60 Lightning Detector Sensor

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1. Getting Started

1.1 Parts List

One Lightning Detector Sensor

One User Manual

2. Overview

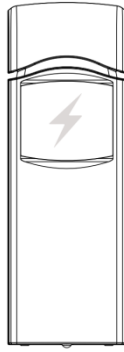


Figure 1: Lightning Detector Sensor

2.1 Features

Lightning Detector

- Detects lightning bolts and storms within 25 miles (40 kilometers)

- High or low sensor sensitivity selectable to meet different requirements.
- Long wireless range up to 330 feet (100 meters) in open areas
- Transmits readings every 79 seconds
- Easy installation includes hanging hole

When paired with a froggit DP1500 Wi-Fi Gateway:

- Monitor number of strikes daily, and the time & distance of the last strike detected within a 25-mile radius of your location on the Live Data page of the WS View app (requires the gateway and your phone is using the same Wi-Fi network)
- Battery power level display on the WS View App

**When paired with a froggit HP1000SE PRO
Weather Station Console:**

- View lightning data in real-time on the Display
- Get alerted to lightning strikes with the flashing lightning icon

When uploaded to Ecowitt Weather Server:

- View lightning data & history records & graph on the website
- Receive email alerts from the server
- Remote monitoring with smart phone, laptop, or computer by visiting the website

3. Setup Guide

3.1 Installing batteries

1. Remove the battery door on the back of the transmitter by taking off the cover, as shown in Figure 2

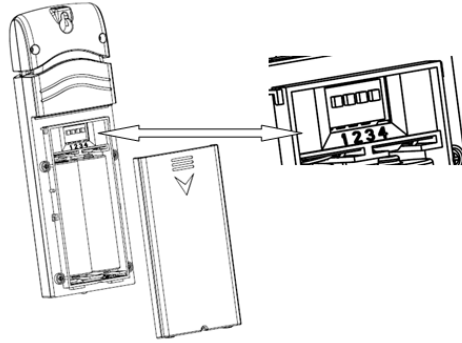


Figure 2: Battery installation

2. Before inserting the batteries, find the dip switches instruction above the battery compartment and set the following configuration:

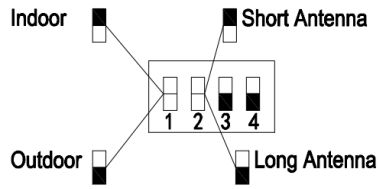
Indoor/outdoor: Dip switch 1, default setting is for “outdoor”, no matter the sensor is placed indoor or outdoor, set this dip switch to outdoor to avoid system picks up noise and triggering false lightning.

Antenna: Dip switch 2, default setting is for long antenna, as this is the antenna used inside. **Please do not make any change with this dip switch setting.**

Sensitivity: Dip switch 3,4. Default setting is for sensitivity between high and mid. If you think the sensor picked up a lot false lightning strikes, then please try with sensitivity Mid or Low. If sensor missed lightning detection, you may try with high

sensitivity setting. If set to high sensitivity and still has missed lightning detection, then you may try with Dip switch 1 for “Indoor” setting to make the system even with higher gain and make the system most sensitive.

Default for all the 4 switches are in Down Position.



- Sensitivity Default → 3 4
- Sensitivity High → 3 4
- Sensitivity Mid → 3 4
- Sensitivity Low → 3 4

Switch in down position. Switch in up position.

Figure 3: Dip Switch diagram

3. Insert two 1.5V AA batteries.

The LED indicator will turn on for four seconds and normally flash once every 79 seconds (the sensor transmission update period).

Note: If no LED lights up or stays lit permanently, make sure the batteries are inserted the correct way or a proper reset happens. Do not install the batteries backwards. You can permanently damage the sensor.

4. Close the battery door.

3.2 LED Indicator

Flash (each): Indicates one packet of RF data from a sensor was received or one lightning strike was detected.

Flash (for 2S): Indicates detection of noise signals, prompting the user that current location has high level noise. You can either set dip switch 3, 4 to mid or low sensitivity level which raised to a higher threshold level for noise filtering, or you can find another location for lower noise level.

Steady on (for 2S): Indicates detection of interference signals. It means there is lightning like signals around. You should try to find interference sources like motor, switches for all kinds electrical appliances, and place the sensor far away from these interference sources.

Steady Off : Indicates no triggering of lighting signal neither noise, nor interference.

4. Sensor Placement

The sensor can be placed both indoor or under porch, balcony.

To mount or hang the unit on a wall or wood beam:

- Use a screw or nail to affix the remote sensor to the wall, as shown on the left side of figure 4, or
- Hang the sensor using a string, as shown in right side of figure 4.

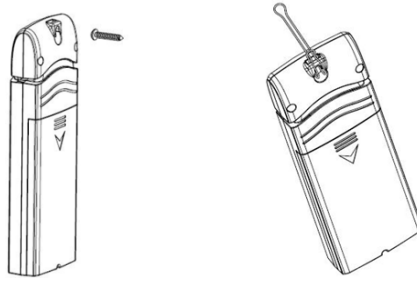


Figure 4: Indoor sensor mounting

Note: Make sure the sensor is mounted vertically and not lying down on a flat surface. This will insure optimum reception. Wireless signals are impacted by distance, interference (other weather stations, wireless phones, wireless routers, TVs and computer monitors), and transmission barriers, such as walls. In general, wireless signals will not penetrate

solid metal and earth (down a hill, for example).

5. Wi-Fi Configuration with gateway

To view the lightning data on your mobile application and receive email alerts on our weather server, you need to pair this device with our DP1500 Wi-Fi Gateway or HP1000SE PRO Weather Station (sold separately).

5.1 Pair with Gateway

If the DP1500 has been in operation, and you have never had any DP60 lightning detection sensor setup before, just power up the sensor and DP1500 will pick the sensor data automatically.

If one DP60 sensor has been hooked on DP1500 before, and you have a new DP60 sensor to replace the old one, just power off the old sensor and power on the new sensor, the gateway will pick up the new sensor data automatically.

You may also go to the Sensor ID page of the app (requires the Wi-Fi configuration done first) to Re-register the sensor if not picked up automatically.

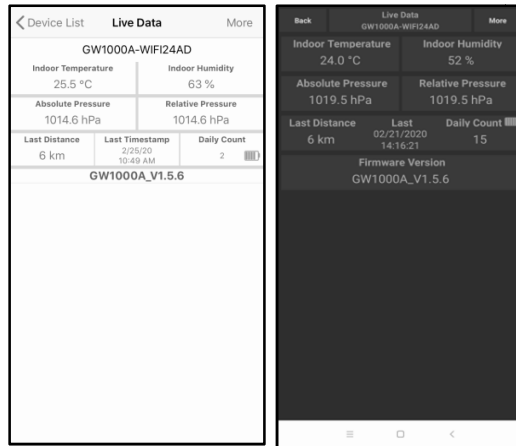
5.2 Wi-Fi Connection for the Gateway

For this part, please refer to the manual of the DP1500 Wi-Fi gateway.

Any question, please contact the customer service.

6. View Online Data with WS View

When the Wi-Fi configuration is done, you may view lightning data as well as the sensor battery level on WS view App at the live data page.



Note: It requires your phone and the gateway using the same network to view your sensor data on the WS View app.

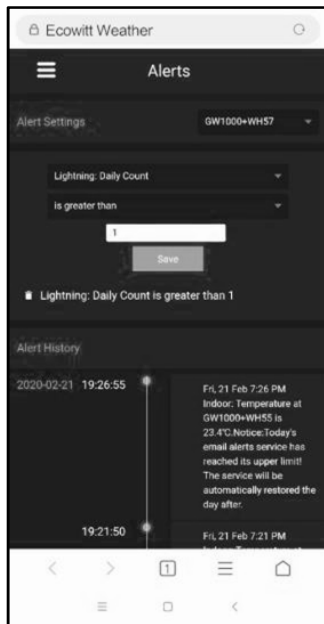
To remote monitor the sensor data, please upload the data to free Ecowitt Weather Server: <https://www.ecowitt.net>.

Detailed operation instructions can be found on the DP1500 manual.

7. Set Email Alerts

Once your device is added successfully on the Ecowitt Weather server, you may set alerts for the lightning distance and daily count on the

website to get email notifications.



8.Specification

Power: 2x1.5V AA batteries(not included)

Sensor Size: 123x42x14mm

Frequency: 868Mhz

Wireless transmitting range: 100M (300feet)

Lightning detection range: 0-25 miles/0-40km

Sensor reporting interval: 79 seconds

Working temperature: 0~50C(32~122F)

General safety instructions

Danger of asphyxiation:

Keep all packaging materials (plastic bags, rubber bands, etc.) away from children. There is a danger of suffocation!

Danger of burns:

Caution! Leaking / leaking battery acid can lead to burns! Avoid contact of battery acid with eyes,

mucous membranes and skin. In case of contact, rinse the affected areas immediately with clear water and consult a doctor.

Risk of electric shock:

Children must not be unattended with the device, because the device contains electronic parts which are operated by means of a power source. The device may only be used as described in the instructions. If not, there is a risk of electric shock.

Danger of fire & explosion:

Use only recommended batteries. Never short-circuit the unit or batteries. Never throw the device or batteries into a fire! Overheating and improper handling may result in short circuits which can cause fires and explosions.

Important:

If there is a defect, contact your dealer immediately. Never disassemble the device! The dealer will contact the service department. Never expose the device to water! Protect the device from vibrations. Only use recommended batteries. Never mix batteries - Always replace empty batteries with a complete set of full power batteries. If the unit is not powered for a longer period of time or is not in use, remove the batteries from the unit. The manufacturer accepts no liability for incorrectly inserted batteries!



Notes on the return of batteries according to §12 BatterieVO: Batteries do not belong in the household waste. Please dispose of all batteries as required by law, disposal in domestic waste is expressly prohibited. Batteries and rechargeable batteries can be dispensed free of charge at municipal collection points or in the shops on the spot.

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declaration of conformity

Hereby we declare, HS-Group GmbH & Co.KG,

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Escherstr. 31, 50733 D-Cologne, that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The declaration of conformity for this product can be found at: www.froggit.de or on request.

Note: Once lightning strikes detected, the led light will flash once, and the ecowitt.net will push email alerts at the same time.