froggit DP-Serie

# DP1500 WiFi Wetterserver USB Dongle

Manual EN

# froggit.de

Support/Manual/Spare parts/compatible products: <a href="http://www.froggit.de">www.froggit.de</a>

# 1. Scope of delivery

Number of articles:

1 DP1500

1 user manual (German) - other languages can be downloaded from froggit.de

#### 2. Overview



#### 3. Features

- Transmits data from froggit DP sensors (e.g.: DP100, DP200, DP50) to your local WLAN network or internet-based weather services.

- Enables monitoring of environmental or atmospheric data with the free WS View Mobile application by connecting to optional sensors (sold separately): multi-channel temperature and humidity sensors, rain, wind, soil humidity, PM2.5 and more.

- Measurement of indoor temperature, humidity (indoor) and air humidity with integrated sensor (sensor is located at the end of the cable).

- Supports data upload to Ecowitt.net, Weatherunderground.com, Weathercloud.net and WOW (multi-channel temperature and humidity sensors, PM2.5 sensors and soil humidity sensor data can only be uploaded to Ecowitt.net). However, they can be displayed via the WS View APP if they are on the same WLAN network).

- Small size and compact design.
- Powered via USB port.

Note: If only the DP1500 was purchased, only the integrated air pressure gauge data can be uploaded to Wunderground.com.

# 4. Installation



Number Function / Description

- 1 Configuration / Reset button
- 2 RF (radio link) Status indicator display
- 3 WiFi (Wlan) Status Indicator Display
- 4 USB port (power supply)
- 5 3-1 Thermo-hygrometer, air pressure sen

Before you configure the DP1500 with your mobile phone, please read the introduction of the LED lights and the key function for a better understanding.

#### 5. LED

#### RF (Blue): Displays the reception status of the RF data.

- Flashing indicates that a packet of RF data has been received.

- No light indication means no reception.

#### Wi-Fi (Red): Status of the Wi-Fi connection.

- Lights up constantly, indicates that the Wi-Fi connection has been successfully established, the network communication is normal and the data is successfully uploaded to the weather server.

- If not lit, indicates that the Wi-Fi connection has failed.

- Slow flashing, indicates that the wireless router (WIFI) has been successfully connected, but the data has not been successfully uploaded to the server.

If this status occurs during use, first verify that the wireless router is connected to the Internet, and then verify that the upload server account and password are correct.

- Fast flashing (2HZ), indicates that the gateway is in Wi-Fi configuration status and you can use the WS View APP to forward to the Wi-Fi connection process.

### 6. Key function

The black button is used for the following two modes:

**Wi-Fi configuration mode**: Press and hold the button for 5 seconds until the Wi-Fi status LED flashes rapidly and the DP1500 is ready for Wi-Fi configuration.

**Reset Mode**: Press and hold the button for 10 seconds to reset the DP1500 and clear the history data.

#### Note:

The Wi-Fi status indicator light flashes rapidly the first time the unit is turned on. This means that the DP1500 is in Wi-Fi configuration mode. The Wi-Fi connection must be operated in this mode.

If you have purchased optional sensors, you can turn on the new sensor at any time and use WS View Live data to confirm whether a new sensor has been successfully added.

## 7. Upload your weather data to Hosting Service

Your DP1500 can send your sensor data to WS View APP via the local network or selected Internet-based weather services. The supported services are listed in the table below:

Hosting Service	Website	Description
Ecowitt Weather	https://www.ecowitt.net	Ecowitt is a new weather server that can host a bunch of sensors that other services don't support at this time.
Weather Undergound	WeatherUndeground.com	Weather Underground is a free weather hosting service that allows you to send and view your weather station data real-time, view graphs and gauges, import text data for more detailed analysis and use iPhone, iPad and Android applications available at Wunderground.com. Weather Underground is a subsidiary of The Weather Channel and IBM.
Weather Cloud	WeatherCloud.net	Weathercloud is a real-time weather social network formed by observers from around the world.

Weather	wow.metoffice.gov.uk	The UK Met Office Weather
Observation		Observation
Website (WO		Website (WOW). WOW allows
W)		anyone to submit their own weather
		data, anywhere in the world.
Customized		Supports uploading to your
Website		customized website, if the website
		has the same protocol with
		Wunderground or Ecowitt

#### 8. WiFi

Note:

Please always ensure that your mobile device does not communicate directly with the DP1500 when setting up your device. It always works with the following topology:



Please follow the procedure below:

a) The first step is always to pair your DP1500 with your local WLAN network, such as your router via the WS View APP.

b) Check your local live data by tapping on the device in your device list if step one was successful.

c) Check the data quality and make sure that the sensor(s) and DP1500 can be found normally.

d) Register your DP1500 with your received WU station ID or MAC address with the special weather service you specified.

e) When you register with WU, you can view the current daily and historical data in the WS View app.

# 9. App

Download the WS-View APP from the Apple App Store or the Google Play Store.

# 10. registration of your Personal Weather Station (PWS) at wunderground.com

If you plan to use wunderground.com, you must have an account and register a (new) personal weather station. You can do this on the wunderground.com website, or you can do it from the mobile app. Make a note of the PWS ID and the password that will be generated for you.

#### 11. activation of the setup application

Now activate the app that you downloaded to your phone.





#### Note:

When you open the application for the first time, the Configure Device page appears. If not, press the SETUP icon in the upper left corner and select "Configure a new Device". Select the DP1500 image and press the Next button to start the configuration. For configuration please follow exactly the instructions displayed on APP during the configuration process.

Since your DP1500 was not set up for the weather server during device configuration, the weather server settings page will appear automatically. If you have your server ID and password available, you can complete the process by entering your Station ID and Password. You can also complete/change the weather server setting by tapping the device in your device list and tapping "Web Server" on the Live Data page to complete the weather server setting.

<	Device List	Contract	ata +
GW1000B	-WIFIA40F 81122	GW1000-V	VI Web Server
MAC: 84:F	3:EB:21:A4:0F	26.3 °C	Calbration
GW1000A	-WIFI2612	Outdoor Temperature 23.5 °C	Rain
MAC: 84:F	3:EB:25:26:12	Absolute Pressure 1017.1 hpa	Device System
GW1000-V IP: 192.168	WIFI885C 8.1.127	Solar Radiation 0.0 w/m2	0
MAC: 84:F	3:EB:21:88:5C	Wind Speed 0.4 km/h	210 *
		Wind Gust 1.8 km/h	SSW
		RainRate RainDay RainWeek RainMonth BainYear	0.0 mm 0.3 mm 0.3 mm 6.9 mm
		<mark>Рм2.5</mark> 102.0 ug/m <sup>3</sup>	AQI 133 Poor
Tap on you	ur device above to view or	CH1 Soil	11 %
change se	ungs.	CH2 Temperature 25.5 °C	CH2 Humidity 69 %

If the DP1500 has been successfully added to your router, the WS View APP Device List page will list the newly added device. Tap the device that displays the received live data.

Covice List Live	Data +
GW1000-	WIFI885C
Indoor Temperature	Indoor Humidity
26,2 °C	61 %
Outdoor Temperature	Outdoor Humidity
23.5 °C	62 %
Absolute Pressure	Relative Pressure
1017.3 hpa	1017.3 hpa
Solar Radiation	UVI
0.0 w/m2	0
Wind Speed 0.4 km/h	210*
Wind Gust 1.8 km/h	ssw
RainRate	0.0 mm
RainDay	0.3 mm
RainWeek	0.3 mm
RainMonth	6.9 mm
RainYear	6.9 mm
РМ2.5 95,0 ug/m <sup>3</sup>	AQI 125 Peor
CH1 Soil	11 %
CH2 Temperature	CH2 Humidity
25.4 °C	69 %

Wir empfehlen dringend, die Einrichtung des Wetterservers abzuschließen, nachdem Sie sich sicher sind, dass die empfangenen Daten alle korrekt mit den vorhandenen Sensoren übereinstimmen.

# 12. WU (Wunderground) Dashboard

If you have set up the DP1500 to transfer data to WU, you can use the WS View app to display the current day weather data:

山中国联通 🗢	17:37	\$ 10% 💽 +
\$	WU Dashboard	Station ID
	144JIUXI35 2018-11-08 17:34:32	
Temperature		
Dew Point		**
Relative Humic	lity	
Relative Press	ure	1013.1 hPa
Wind Direction	E	North
Wind Speed		**
Wind Gust Spe	ed	**
Solar Radiation	n i	
Rainfall Rate		0.0 mm/hr
Rainfall Today		0.0 mm
27 Twrss 24 21 18	06:40 10:00	13:20

To activate this function, please proceed as follows:

- a) Press the "Setup" icon and select "Manage WU stations".
- b) Press "ADD" and enter your WU station ID on the next page.



	P 12:44	@ -7 🔳)
<	Manage WU Stations	ADD
144JIUX14	1	Delete
144JIUX13	4	Doleta
144JIUX14	0	Delete
144BAOA	47	Delete
IU5E7FU4	48	Delete
ITOKY021	I	Delete
kutdrape7	,	Delete
144NANT	040	Delete
IU5E7FU4	430	Delete
IGUANDO	N2	Delete
KILMCHE	N42	Delete

Add Stat If you already have a P	tionID
If you already have a P	
Wunderground, you can a page of this app by provid pressing Ad	dd it to the My Devices ding the station ID and d Device.
Station ID	
Add Stat	tion ID

#### 13. WU Dashboard and Live Data Difference

You will be surprised at the data displayed. Here is a short explanation showing the data difference:

Live data is received from the APP when the APP and the DP1500 are on the same network without requiring an Internet connection. Normally it looks like this:

Smartphone Rou	ıter ← DP1500
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WU Dashboard is used to display the data received from the WU server, so it is the data stored on the WU from the Internet.

#### 14. information and adjustment of the sensor parameters

If you are in the LIVE DATA display mode, you can activate the initial rain value or sensor calibration. You can manually enter the initial rain value for month, year, or total if you are migrating from another system and want to keep the data inherited.

GW1000-V	VI Web Server
26.3 °C	Calbration
Outdoor Temperature	Rain
Absolute Pressure 1017.1 hpa	Device System
Solar Radiation	UVI
0.0 w/m2	0
Wind Speed	0
0.4 km/h	210 *
Wind Gust	SSW
1.8 km/h	
RainRate	0.0 mm
RainDay	0.3 mm
RainWeek	0.3 mm
RainMonth	6.9 mm
RainYear	6.9 mm
PM2.5	AQI
102.0 ug/m <sup>3</sup>	133
CH1 Soil	11 %
CH2 Temperature	CH2 Humidity
25.5 °C	69 %

Rain Day:	0.3	mm
Rain Week:	0.3	mm
Rain Month:	6.9	mm
Rain Year:	6.9	mm
	Reset	i 
	Save	

Calibration	
1.00	
1.00	
1.00	
1.00	
1.00	
0.0	°C
0	%
0.0	hpa
0.0	hpa
0.0	°C
0	%
0	
	1.00 1.00 1.00 1.00 1.00 0.0 0.0 0.0 0.0

Rainstart value Sensor offset or gain set

# 15. registration / use wunderground.com

You can register a WU ID in the WS View app:

•● 中国联盟 ◆	17:	39	\$ 15% 🍋	*	
\$	WU Das	hboard	Station ID		
Configure a N	ew Device	35 7:34:32			
Device List					
200000000000000000000000000000000000000	2151050500000				
Register With	Wunderground		**		
Manage WU S	Stations		1013.1 hPa		
Configure Uni	ts		North		
Wind Gust Sp	beed				
Solar Radiati	on				
Rainfall Rate			0.0 mm/hr		
Rainfall Toda	Y		0.0 mm		
27 - Ter	querature / Dew Point				
24					
18		h			
03:2	0 06:40	10:00	13:20		
- remperature	Clew Point				
69	Humidia				
63		1			
60		The second	W. M.		
all 中国移动 👻	40.0			·····································	*
	13:3	3	@ 4 🔳 )		1000
<	Register	3 a PSW	e 🛪 💼 Register	Register a PSW Response	
Create	Register	3 <b>a PSW</b> or register a	e v D Register PWS	Register a PSW Response	
Create E-mail	Register	3 a PSW or register a	e ∢ ■⊃ Register PWS	Register a PSW Response  Congratulations! You successfully signed up you	xur
Create E-mail One e-mail of	Register WU account an register m	3 a PSW or register a	€ 7 ■0 Register PWS	Register a PSW Response      Congratulations! You successfully signed up yo     PWS!	our
Create E-mail One e-mail o Password	Register WU account i	3 a PSW or register a	€ 4 ■0- Register PWS	Congratulations! You successfully signed up yo PWS!	our
Create E-mail One e-mail d Password	WU account	3 a PSW or register a	er v ∎o Register PWS	Congratulations! You successfully signed up yo PWS!	our
Create E-mail One e-mail o Pessword Enter Password	WU account of an indictor indi	3 a PSW or register a	er ∢ ∎o Register PWS	Congratulations! You successfully signed up yo PWS! Station id:144NANTO40	our
Create E-mail One e-mult o Pesaword Enter Passworr	Register WU account i an register mu	3 a PSW or register a	e ∢ ∎) Register PWS	Congratulations! You successfully signed up yo PWS! Station id:I44NANTO40 Station password:s0h0fr7l	our
Create E-mail One e-mail o Pasaword Enter Password Station Name	Register WU account of an register mo	3 a PSW or register a	er ∢ ∎o Register PWS	Register a PSW Response Congratulations! You successfully signed up yo PWS! Station id:144NANTO40 Station password:s0h0fr7l	xur
Create E-mail One e-mail o Password Enter Password Station Name Device Locatio	Register WU account i an register en d Again	3 a PSW or register a	er < ∎o Register PWS	Register a PSW Response      Congratulations! You successfully signed up yo     PWS!      Station id:144NANTO40     Station password:s0h0fr71      Your Credentials are Case sensitive.They can     retrieved from Wunderground com through the	xur
Create E-mail One e-mult o Pasaword Enter Passworn Station Name Device Locatio	Register WU account of an indictor mu d Again	3 a PSW or register a those PAYS	er ∢ ∎o Register PWS	Register a PSW Response      Congratulations! You successfully signed up yo     PWS!      Station id:I44NANTO40     Station password:s0h0fr7l      Your Credentials are Case sensitive.They can     retrieved from Wunderground.com through the     My Weather Stations page in the My profile me	our nu.
Create E-mail One e-mail o Pessword Enter Passwori Station Name Device Locatio	Register WU account i an register mu d Again n Current GPS	3 a PSW or register a dute PWS but PWS	er ∢ ∎o Register PWS	Register a PSW Response      Congratulations! You successfully signed up yo     PWS!      Station id:I44NANTO40     Station password:s0h0fr7l      Your Credentials are Case sensitive.They can     retrieved from Wunderground.com through the     My Weather Stations page in the My profile me	xur nu.
Create E-mail One e-mail o Pasaword Enter Pasaword Station Name Device Locatio	Register WU account i an register m d Again d Again	3 a PSW or register a diule PWS Location Longitude Terms of Se	e e D	Register a PSW Response          Congratulations! You successfully signed up yo         PWS!         Station id:I44NANTO40         Station password:s0h0fr7l         Your Credentials are Case sensitive.They can retrieved from Wunderground.com through the My Weather Stations page in the My profile me	xur nu.
Create E-mail One e-mail o Password Enter Password Station Name Device Locatio Device Locatio	n Current GPS	3 a PSW or register a digit PWS <u>Location</u> Congitude Terms of Se	e e e	Register a PSW Response          Congratulations! You successfully signed up yo         PWS!         Station id:144NANTO40         Station password:s0h0fr7l         Your Credentials are Case sensitive.They can retrieved from Wunderground.com through the My Weather Stations page in the My profile me	xur nu.

Fill in the form and select "Register". You will then receive your WU Station ID and Sation password. Please make a note of the data and keep it for future reference.

#### 16. Viewing data on wunderground.com

The most basic way to observe your weather station's data is by using the wunderground.com web site. You will use a URL like this one, where your station ID replaces the text "STATIONID":

<u>http://www.wunderground.com/personal-weather-station/dashboard?ID=STATIONID</u> It will show a page such as this, where you can look at today's data and historical data as well:

PWS Data PWS 9	indgets WunderSt	ation							My PWS
PWS viewed 3 times	since July 1, 2018								
Satellite Webcam @ kon				Current Conditions Station reported 0 second ago					
•		A.	-	78.4	¦°F	(1	21) Way	i kom ENE 12.5 mph	
Contrada a	Damain		3	Dev Point:	46.2 'F	6M		0.0 .	
		1		Humidity	6679	Sol	#15.	0 w/m <sup>2</sup>	
				Precip Ratel	0.00 in/hr	00 in/hr 50	Moisture	- 10	
				Precip Accum:	0.00 in	Sol	Terreti	44	
			<b>1</b>	Pressure:	29.80 in	Local	f Wetness:	183	
Pagente	& Maptox © Opens	treetMap   Improve t	an map		10 044				
Long C.	brents	High Clearfu		Outrains cities	A VERN IN COLORS	20			
				Consideration	a ( ava memoriale	90-3			
	VIEW WUDDERN	- Contraction	5253						
100 DE 100	a								
Weather Hist	ory for Darwin	n, [IDARWIN]	[3]			10 C 10 C			
Weather Hist	ory for Darwin	n, [IDARWIN]	r. 💽 b	de 😽 K	2018 🐱	View			Nest
Weather Hist Provious Summary July 6, 2018	ory for Darwir	n, [IDARWIN]	13] × 💽 5	de 💽	2018 💌	View			Nest
Weather Histo Previous Summary Judy 6, 2018	ory for Darwin	n, [IDARWIN] Daily Mod	Average	de 💌 K	2018 🥌	View	Low	Aver	Nex 2
Weather Histo Provious Summary Judy 6, 2018	High 824 %	Low 774 F	Average 78.9 'E	de 😿 A	ed 1	View ligh 3 mph	Low	äver. 12 m	Nex 🔁 ge ph
Weather Histo Previous Summary July 6, 2018 Temperature Dew Point	огу for Darwie нідк 824 т 78.8 ч	Low 774 %	Average 79.9 % 70.1 %	ule and A	ed 1	View ligh 3 mph 4 mph	Low 	Aver. 12 m	Nex 📀 ge ph
Weather Histo Previous Summary July 6, 2018 Temperature Dev Point Humidity	нур нур 824 т 78.8 т 79%	Low 77.4 % 61.6 %	Average 79.9 'F 70.1 'F 70'H	de e A	ed 1 t 1	Njew ligh 3 mph 4 mph	Lpw 	Aver 12 m  West	Next D

There are also some very useful mobile apps. The URLs provided here go to the Web version of the application pages. You can also find them directly from the iOS or Google Play stores:

• **WunderStation**: iPad application for viewing your station's data and graphs <u>https://itunes.apple.com/us/app/wunderstation-weather-from-your-neighborhood/id906099986</u>



• **WU Storm**: iPad and iPhone application for viewing radar images, animated wind, cloud coverage and detailed forecast, and PWS station data

https://itunes.apple.com/us/app/wu-storm/id955957721



Weather Underground: Forecast: iOS and Android application for forecasts
 <u>https://itunes.apple.com/us/app/weather-underground-forecast/id486154808
 https://play.google.com/store/apps/details?id=com.wunderground.android.weather
 &hl=en
</u>



• **PWS Weather Station Monitor**: View weather conditions in your neighborhood, or even right in your own backyard. Connects to wunderground.com <a href="https://itunes.apple.com/us/app/pws-weather-station-monitor/id713705929">https://itunes.apple.com/us/app/pws-weather-station-monitor/id713705929</a>



# 17. Specifications

- Power supply: USB 5V
- Dimensions: approx. 12 x 35 x 62 mm
- Frequency: 868Mhz
- Transmitting power: 15.06dBm
- Temperature Measuring range: -10°C 60°C (14°F 140°F)
- Temperature Resolution: 0.1°C, 0.1°F
- Temperature Accuracy: +/- 1°C
- Humidity Measuring range: 10% 99%.
- Humidity Resolution: 1%.
- Humidity Accuracy: +/- 5%.
- Air pressure Measuring range: 300 1100hPa (8.85 32.5 inHg)
- Air pressure Accuracy: +/- 5 hPa
- Air Pressure Resolution: 0.1 hPa (0.01 inHg)

#### **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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UStld DE237971721 WEEE Reg. Nr. 66110125

declaration of conformity

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