PWS WEATHER

Weather Data Internet Platform

EN SETUP GUIDE

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1. GENERAL INFORMATION

This guide describes the basic steps for registering and setting up a weather station on the Internet platform “PWS Weather.” It also explains the configuration parameters required for connecting with a Bresser weather station.

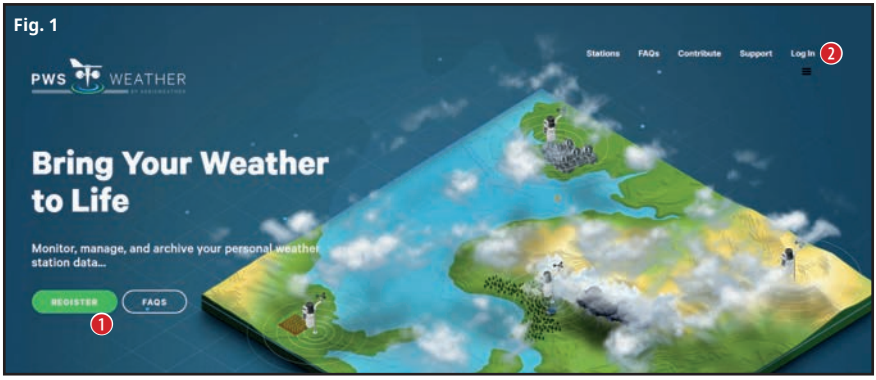
“PWS Weather” is an open Internet platform operated by VAISALA Xweather and is not part of the warranty and service obligations of Bresser GmbH. Bresser GmbH has no influence on any changes to the Internet platform. For any questions about “PWS Weather,” please refer to the provider’s website at www.pwsweather.com

Bresser GmbH declares that the purchased weather station is generally suitable for use with the weather data system “PWS Weather”. The decision to use it rests solely with the user, and Bresser GmbH assumes no liability for any kind of damage to the weather station, its accessories, or connected third-party devices arising from the use of “PWS Weather.”

2. REGISTRATION WITH PWS WEATHER

1. Enter https://www.pwsweather.com in the address bar of your web browser. The homepage of the weather data system “PWS Weather” (English-language website) will appear.

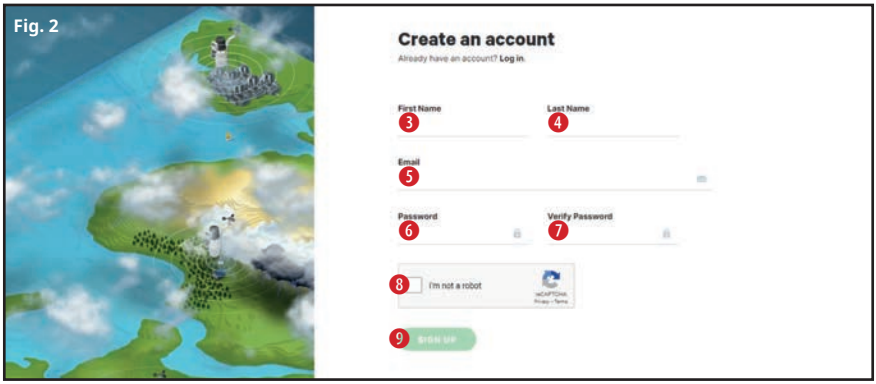
Fig. 1



NOTE:
If you already have an account, go directly to point 7! To create a new user account, continue with point 2.

2. On the homepage, click the green “Register” button (Fig. 1, 1). The page view changes to the “Create an account” window.

Fig. 2



3. In the window, enter your first name under “First Name” (Fig. 2, 3), your last name under “Last Name” (Fig. 2, 4), and a valid email address under “Email” (Fig. 2, 5).
   Set a password under “Password” (Fig.2, 6) and re-enter it under “Verify Password” (Fig. 2, 7).

NOTE:
Be sure to use a valid email address that you have full access to when creating the account!

The length and composition of the password will be checked during entry. If the password meets the security guidelines, a green bar will appear.

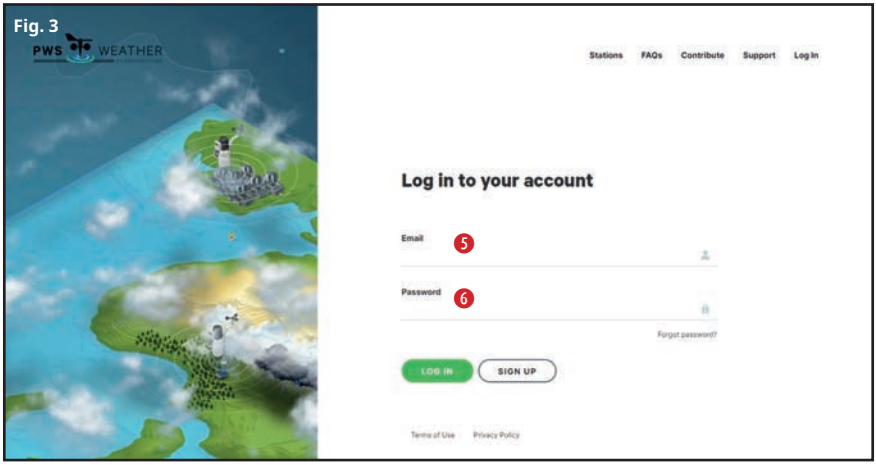
Otherwise, you will need to adjust the password.

A check will also be done on re-entering the password. If both entries match, a green bar will appear here as well.

Make a note of the password and the email address used, as these are needed for portal access.

4. Check the box at “I’m not a robot” (Fig.2, 8) to activate reCaptcha verification (possibly with an additional security prompt in a separate window).
5. Click “Sign Up” (Fig. 2, 9) to complete the account setup.
6. After successfully creating an account, you will receive an email from “PWS Weather.” Confirm your registration by clicking the appropriate link in the email. This confirms your email address, and the registration is complete. You can now log in to “PWS Weather” with your credentials. (see point 7)
7. If you are already registered with “PWS Weather,” click “Log In” on the homepage (Fig. 1, 2). In the login window that follows, enter your email address (Fig. 3, 5) and the password you set (Fig. 3, 6). Click “Log In” (Fig. 3, 8) to access your account settings.

Fig. 3

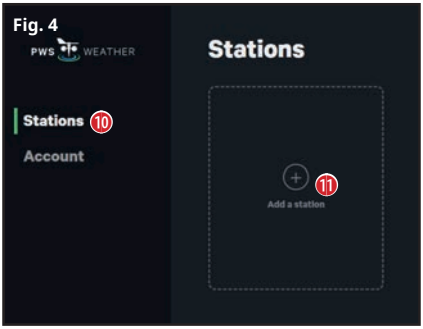


3. SETTING UP A WEATHER STATION

3.1 SETUP WITH AUTOMATIC LOCATION DETERMINATION

1. Click on “Stations” on the left (Fig. 4, 10) to go to the “Stations” page.

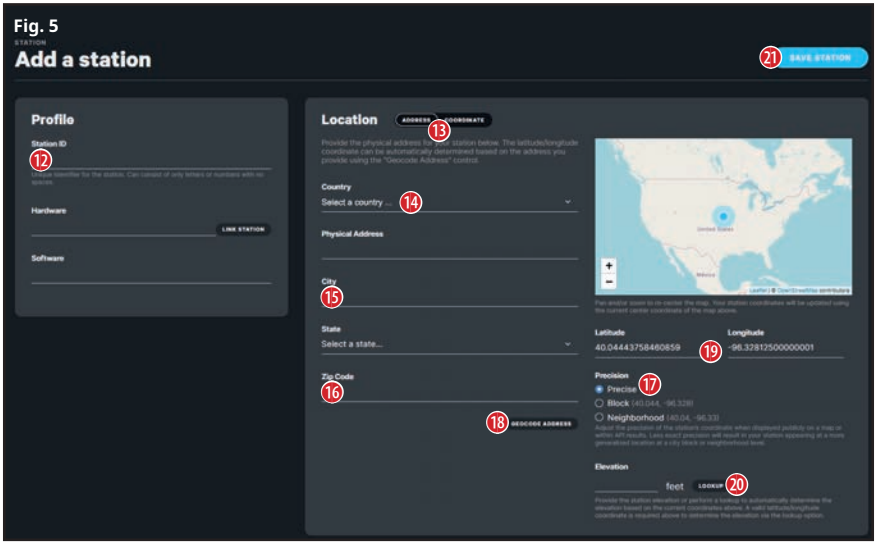
Fig. 4



2. Click on [+ Add a station”] (Fig. 4, 11). The page view changes to the “Add a station” window.
3. In the “Profile” section, assign a unique name for your weather station under “Station ID” (Fig. 5, 12). The other fields in this section are not relevant.

NOTE:
The name should only contain letters and/or numbers and no spaces. (e.g., CHARLY1128)

Fig. 5



4. In the “Location” section, click [ADDRESS] (Fig. 5, 13) to activate automatic location determination.
5. Under “Select a country ...” (Fig. 5, 14), choose the country where your weather station is set up.

6. Also enter the city under “City” (Fig. 5, 15) and the postal code under “Zip Code” (Fig. 5, 16) for your weather station’s location. The other fields in this section are optional.
   Ensure that the “Precision” option on the right (Fig. 5, 17) is selected before proceeding.
7. Click [GEOCODE ADDRESS] (Fig. 5, 18) to automatically retrieve the coordinates (Fig. 5,19) for your location.
8. Click “Lookup” (Fig. 5, 20) to automatically retrieve the “Elevation” (geographic elevation) value.
9. Click “Save Station” (Fig. 5, 21) to confirm the entries and create the weather station. The weather station will be displayed under “Stations.”

NOTE:
If necessary, correct the geographic elevation value if the sensor for collecting measurements is significantly higher (2m+) than the station itself.

If automatic location determination fails, create the station manually (see 2.2 Manual Entry of Location Coordinates).

3.2 SETUP WITH MANUAL ENTRY OF LOCATION COORDINATES

1. Start setting up the weather station as described in steps 1 to 3 in the previous section (2.1 Setup with Automatic Location Determination).
2. In the “Location” section, click “Coordinate” (Fig. 5, 13) to activate manual location entry. The section view changes. You will only see the right part of the “Location” section.
3. Enter the coordinates for “Latitude” and “Longitude” (Fig. 5, 19) for the location of your weather station manually.

NOTE:
You can find location coordinates on various websites (e.g., www.gpskoordinaten.de, www.gps-coordinates.org).

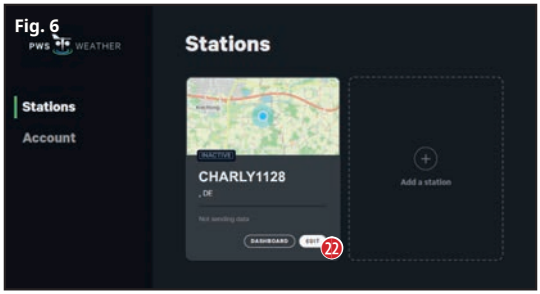
4. Click “Lookup” (Fig. 5, 20) to automatically retrieve the “Elevation” (geographic elevation) value.

NOTE:
If necessary, correct the geographic elevation value if the sensor for collecting measurements is significantly higher (2m+) than the station itself.

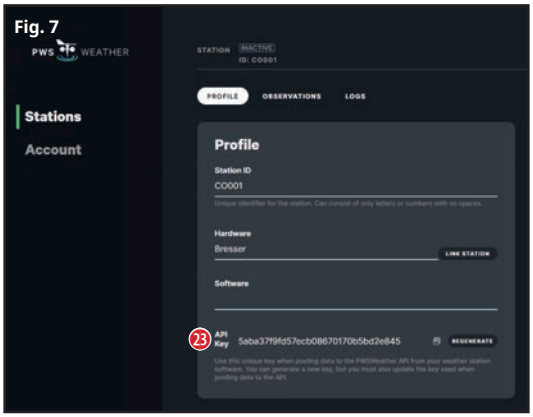
5. Click “Save Station” (Fig. 5, 21) to confirm the entries and create the weather station. The weather station will be displayed under “Stations.”

3.3 RETRIEVING API INTERFACE DATA

1. Click on “Stations” on the left (Fig. 4, 10) to go to the “Stations” page. Your weather station will now appear here in the overview.
2. Click the “Edit” button (Fig. 6, 22) next to your weather station to access the weather station’s profile again.



3. The so-called “API Key” (Fig. 7, 23) is now displayed in the “Profile” section of your weather station. This code is needed to set up your weather station using the WS-Link app. Copy the code using the button and save it for future use in a text document.



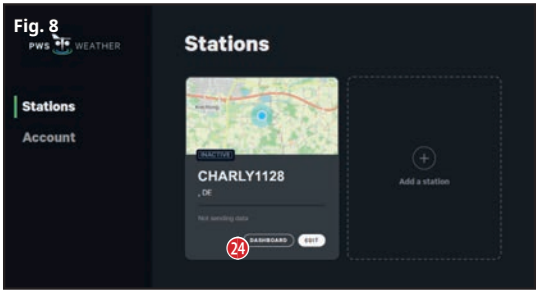
4. ESTABLISH CONNECTION TO THE WEATHER STATION

Use the “Station ID” and “API Key” from the station profile (Fig. 7) to enter it in the connection settings of your weather station.

Further information can be found in the manual of your weather station.

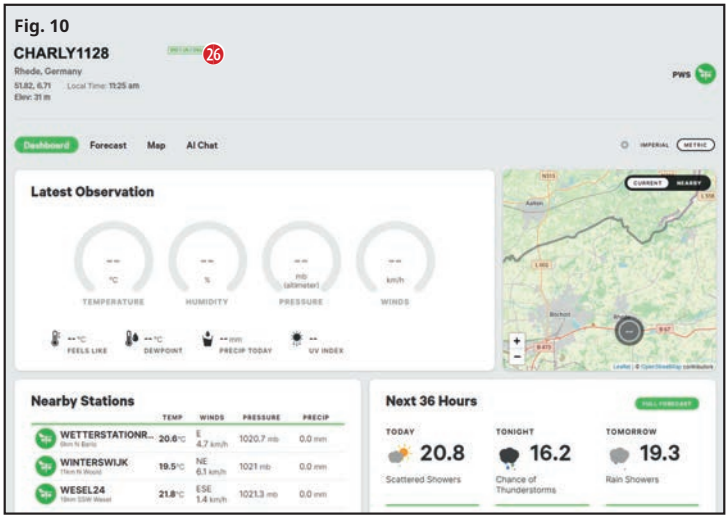
5. DISPLAYING WEATHER DATA ON “PWS WEATHER”

1. In the “Stations” menu item for your weather station, click the “DASHBOARD” button (Fig. 8, 24) to display the data on the overview page.



2. Click on [OBSERVATIONS] (Fig. 9, 25). Here, you can view your weather data and download it as well.

3. The “Latest Observations” view (Fig. 10) graphically displays the detailed information about your weather station’s weather data. The “INITIATING” information (Fig. 10, 26) indicates that data exchange between the weather station and “PWS Weather” is active.

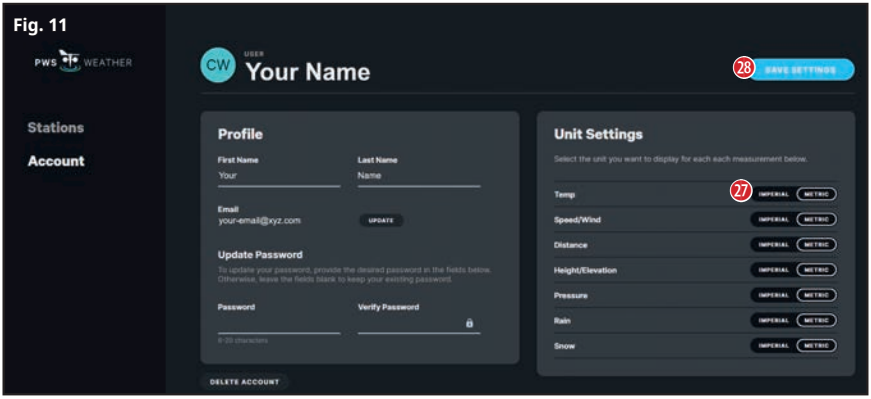


6. CHANGING MEASUREMENT UNITS

It is possible to switch the measurement units for readings in the “PWS Weather” portal (metric or imperial).

1. Log in to the portal with your credentials.
2. Click on “Account” on the left. The page with “Profile” (left) and “Unit Settings” (right) sections will appear (Fig. 11).

Fig. 11



3. In the “Unit Settings” section, select the desired measurement unit for each of the listed measurements. Click on [IMPERIAL] or [METRIC] (metric) (Fig. 11, 27). The currently active measurement unit is displayed in a white frame.
4. Click on [SAVE SETTINGS] (Fig. 11, 28) to save the settings.

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