



## Wifi Weather Station Setup

Setting up your Bresser Wifi-enabled weatherstation isn't a difficult process, but it does require you to log into the Wifi LAN of the Base Station in order to get it talking to the outside internet, via your home or office. Do take your time to read this guide carefully and if necessary, make some notes.

Bresser Weather Station Wifi Setup/Troubleshooting:

1. First take a note of your home or office wifi router's name and password and security protocol (WPA, WPA2 etc.).
2. Connect via Wifi to the weather station base station. We prefer to use a smartphone or tablet to be able to do this, though you can use a regular computer. Disconnect the smartphone, table or computer from your local wifi. Find the wifi signal of the weather station on the device – this should start "PWS" - normally with a 6 digit number after this.
3. Once your device is connected to the PWS wifi signal, use a regular web browser to access the web address <http://192.168.1.1> – this will allow you enter the details of your wifi router's login details to get the base station talking to the internet, via the router. The Pro Weather Link page (pictured below) should come up automatically once you've entered the <http://192.168.1.1> address to your browser and pressed enter.
4. On the Pro Weather Link page, underneath WIFI router setup, you will find the 'Search' button. Sometimes, your router is automatically found and its name entered into the Router box next to the Search button. If it's not there, click the search button and the base station will start looking for local Wifi networks. This can take up to 10 minutes to achieve, so stick with it. If your router is still not found, you can add it manually, using the 'Add Router' button underneath the 'Search' button and entering the name of your router/wifi network in the box next to it.
5. Security type – the 'Security type' box is found under the Router name box. Most modern routers use the WAP2 protocol, which the setup defaults to, but if you're having trouble connecting, it's worth checking the type of security set on your router, as this may be different to WAP2. If it is, change to the correct security type by clicking the drop down arrow next to the Security type box (the different protocols should be listed if you do this).
6. Router Password Box – underneath the 'Security type' box is the password box. Here you will enter the password to our home or office router, to make sure it can make connection. You will see a series of \*\*\*\*\* symbols underneath the password box, corresponding to the number of characters in your password.
7. Weather server setup. If you haven't created a Wunderground or Weathercloud account, untick both of the boxes next to the respective names. If you have already created a Wunderground or Weathercloud account, here is where you would enter the station ID and password that have been assigned to your online account by either service (untick the one you're not using, though you can run both services at the same time). Once this has been achieved successfully, the real time information from the external sensor can be passed to these services via the base station's wifi link

to your router and the outside internet. If you want to sign up to either service, you can do so by clicking either of these links: [wunderground](#) or [weathercloud](#)

8. MAC Address – this shows the standard MAC (Media Access Control) address of the Base Station – you won't need to change this.

9. Time Server Setup – this is very important if you want to access local UK time signals on your base station. You will need to set this up correctly for the base station to receive UK time. This is especially important if you want to get the clock on the base station synchronised automatically to UK time (this can be set manually if you wish though, see manual for details). If you click the down arrow to the right of the 'Server URL' box, find your local time server (it should have UK, or Windows in its title somewhere – it doesn't matter which UK server you pick, if there's more than one).

10. Once you are confident all if this information is correct hit the 'Apply' grey button at the bottom of the screen.

The screenshot shows the 'Pro Weather Link' SETUP page. At the top, there are two tabs: 'SETUP' and 'ADVANCED'. The 'SETUP' tab is selected. Below the tabs, there are two main sections: 'WiFi Router setup' and 'Weather server setup'. The 'WiFi Router setup' section includes a 'Search' button, a 'Router' dropdown menu (set to 'ROUTER\_A'), an 'Add Router' button, a 'Security type' dropdown menu (set to 'WAP2'), and a 'Router Password' field with a password mask. The 'Weather server setup' section includes two sub-sections: 'Wunderground' and 'Weathercloud'. Each sub-section has a checked checkbox, a 'Station ID' field, and a 'Station key' field with a password mask. Below these sections, there is a 'Mac address' field (00:0E:C8:00:07:10) and a 'Time server setup' section with a 'Server URL' dropdown menu (set to 'nist.time.gov'). At the bottom of the page, there is an 'Apply' button. Red lines and arrows point from text annotations to various elements on the page.

Annotations on the left side of the page:

- Select 'SETUP' to enter settings menu
- Select 'Search' to search for a router
- Select 'Add Router' to add a router manually\*\*
- Password record (if a password was entered)
- ID record (if an ID was entered)
- Key record (if a key was entered)
- ID record (if an ID was entered)
- Key record (if a key was entered)

Annotations on the right side of the page:

- Select 'ADVANCED' to enter advanced settings menu
- Select desired Wi-Fi router
- If router is not listed, enter SSID manually
- Select security type of the router (normally WAP2)
- Enter password of the Router (leave field blank if no password has been assigned)
- Check to confirm upload to Weather underground\*
- Enter 'Station ID' registered at Wunderground\*
- Enter 'Station Key' registered at Wunderground\*
- Check to confirm upload to Weathercloud\*
- Enter 'Station ID' registered at Weathercloud\*
- Enter 'Station Key' registered at Weathercloud\*
- Select time server
- Click to confirm entries

At the bottom of the page, there is a footer: 'Function firmware version: 1.00 (Wi-Fi firmware version: 1.00)'.

SETUP page

\*Leave field blank if registration is not yet available and entries are to be made later.  
 \*\*Manual setup requires additional router information (including e.g. IP address, SSID, etc)