



WEATHER TOOL

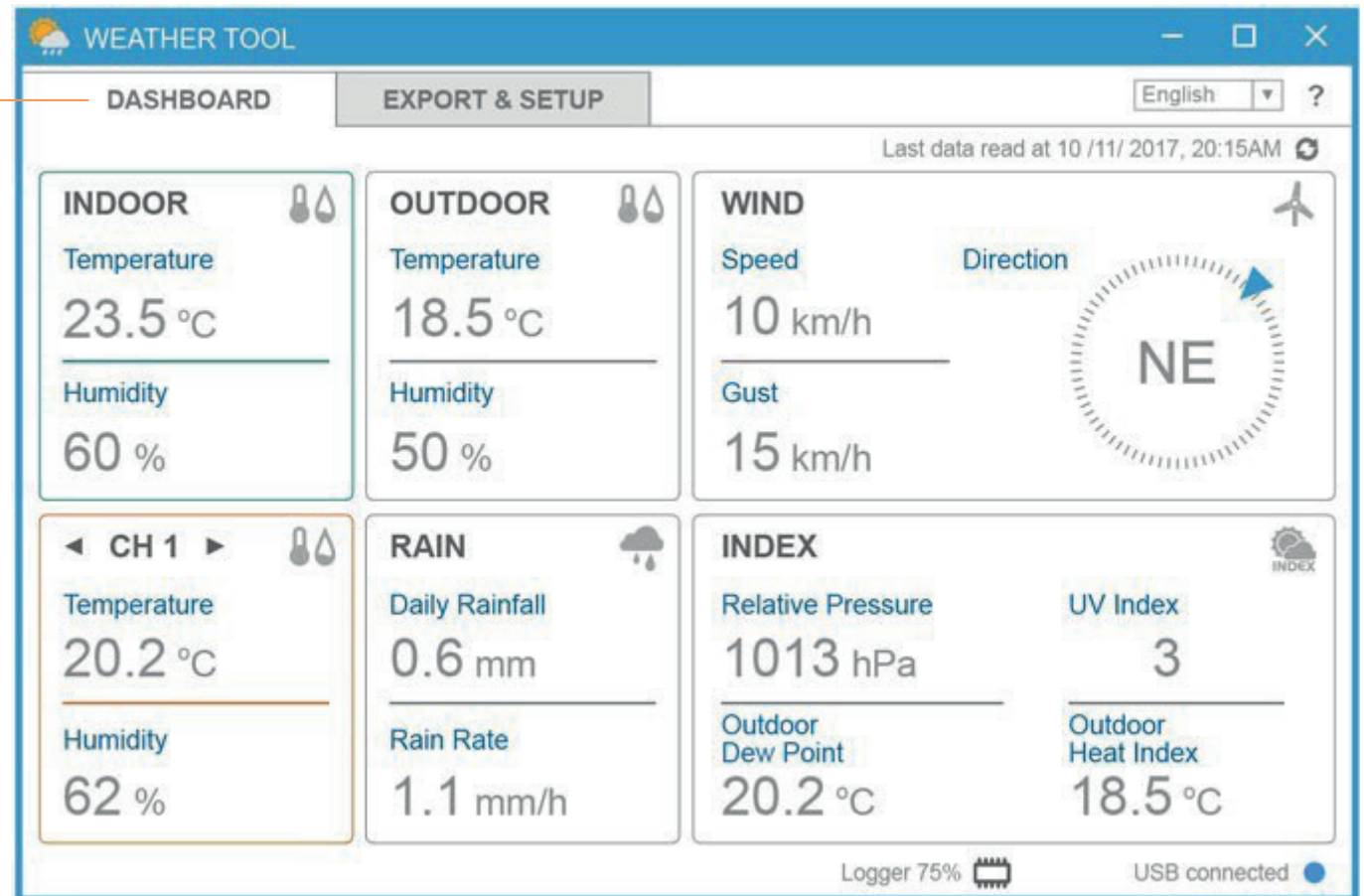
USER GUIDE

DASHBOARD

- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

DASHBOARD PAGE OVERVIEW

Click to show
DASHBOARD
page



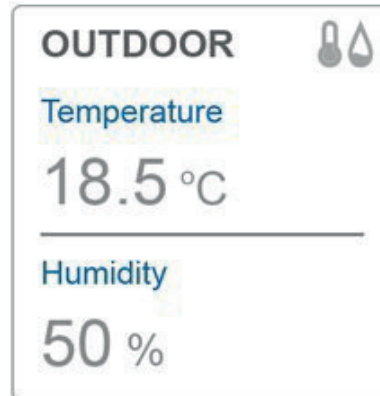
Status bar to show the console status

- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

Display temperature and humidity live data from the console.



Display temperature and humidity live data from the console.



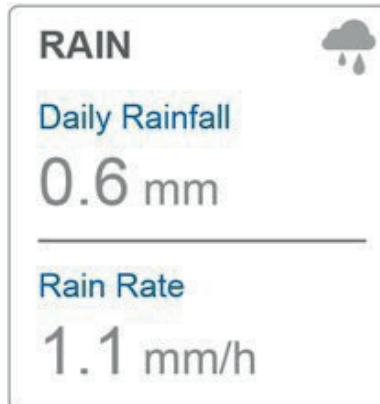
Display wind speed and Direction live data from the 6-in-1 outdoor sensor.



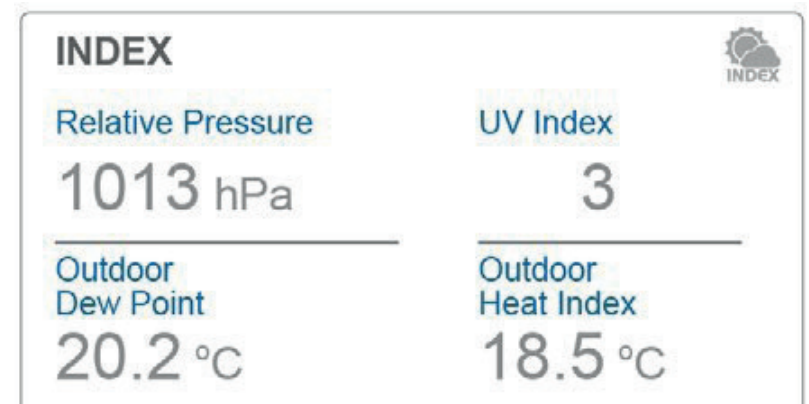
Click on arrows to view different paired sensor's channel.



Display live data for daily rainfall ...



Display the weather index that include relative pressure and UV index from console ...



Display temperature and humidity live data from the additional thermal-hygro wireless sensor(s).

and rain rate from the 6-in-1 outdoor sensor

... and dew point and heat index from the 6-in-1 outdoor sensor

- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

The screenshot shows the Weather Tool dashboard with the following data:

Category	Parameter	Value
INDOOR	Temperature	23.5 °C
	Humidity	60 %
OUTDOOR	Temperature	18.5 °C
	Humidity	50 %
WIND	Speed	10 km/h
	Gust	15 km/h
	Direction	NE
CH 1	Temperature	20.2 °C
	Humidity	62 %
RAIN	Daily Rainfall	0.6 mm
	Rain Rate	1.1 mm/h
INDEX	Relative Pressure	1013 hPa
	UV Index	3
	Outdoor Dew Point	20.2 °C
	Outdoor Heat Index	18.5 °C

Callouts and their descriptions:

- Click to select the display language**: Points to the 'English' dropdown menu.
- Click to open the Weather Tool help document**: Points to the '?' icon.
- Click to refresh live data on the dashboard**: Points to the refresh icon next to the 'Last data read at 10 /11/ 2017, 20:15AM' text.
- Data logger capacity status of the console**: Points to the 'Logger 75%' indicator.
- Connection status of the Console:**
 - connected (blue dot)
 - not connected or connection error (red dot)

EXPORT & SETUP

- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

EXPORT & SETUP PAGE OVERVIEW

Click to show EXPORT & SETUP page

WEATHER TOOL

DASHBOARD | **EXPORT & SETUP** | English ?

UNIT SETUP

Temperature: °C | Pressure: hPa | Type of air pressure: Rel
Rain: mm | Wind speed: km/h | Wind direction: 16

WEATHER SERVER SETUP

Weather Underground
Station ID:
Station Key:
Auto Upload

DATA EXPORT SETUP

DATA PERIOD
Start Date: - - (YYYY - MM - DD)
End Date: - - (YYYY - MM - DD) Whole period

DATA SET

Barometric pressure
 Indoor temperature & humidity
 Outdoor temperature & humidity
 Rain data
 UV index
 Wind data
 Outdoor dew point
 Outdoor heat index

Outdoor channel temperature & humidity
 CH1 CH2 CH3 CH4 CH5 CH6 CH7

Select All | Clear All | Export

Version: 2.00
Logger 75% USB connected

- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

You can change the unit of DASHBOARD and EXPORT DATA in UNIT SETUP section.
Click on ▼ to select the desired unit from the list.

TEMPERATURE:
°C / °F

PRESSURE:
hPa / mmHg / InHG

PRESSURE TYPE:
Abs (Absolute) / Rel (Relative)

UNIT SETUP

Temperature	Pressure	Type of air pressure
°C ▼	hPa ▼	Rel ▼
Rain	Wind speed	Wind direction
mm ▼	km/h ▼	16 ▼

RAIN:
mm / in

WIND SPEED:
mph / m/s / km/h / knots

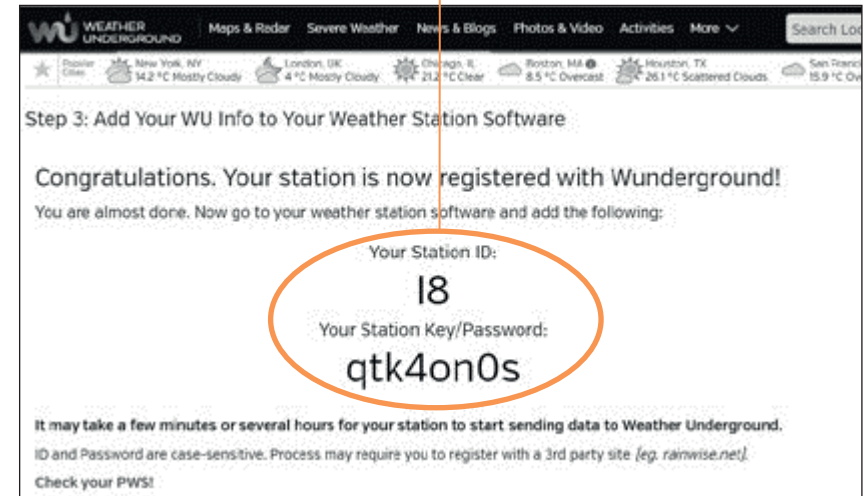
WIND DIRECTION:
16 directions / 360°

- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

PART 1: REGISTER WEATHER SERVER

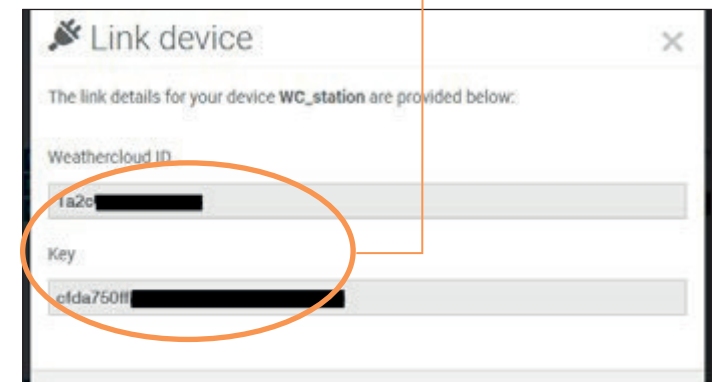
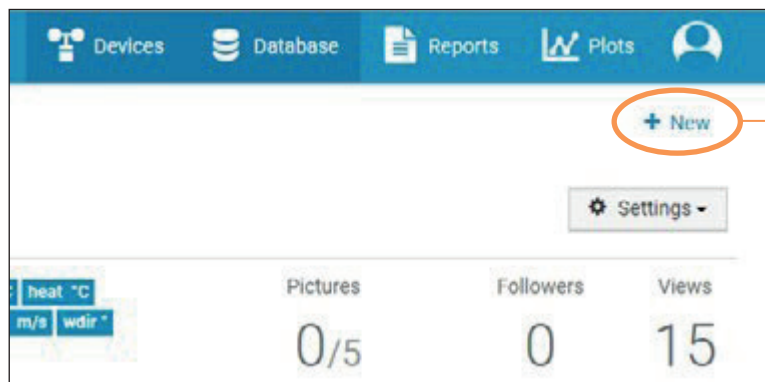
REGISTER AT WEATHER UNDERGROUND

1. Create and login a free account at www.wunderground.com
2. Click More > Add a Weather Station to register your PWS (Personal Weather Station) device and enter all of the information requested.
3. Once registered, unique “station ID” and station key (password) for your PWS (Personal weather station) are assigned to you by Wunderground.




REGISTER AT WEATHERCLOUD

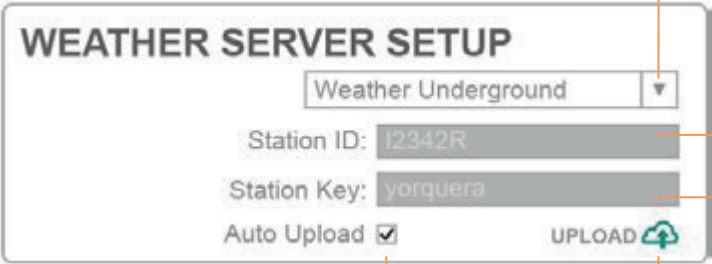
1. Create and login a free account at <https://weathercloud.net>
2. Once you sign in, click **+New** button to create your new device and enter all of the information requested.
3. Once registered, unique “Weathercloud ID” and key for your device are assigned to you by Weathercloud.



- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

PART 2: KEY IN THE WEATHER SERVER SETUP INFORMATION

1. In the WEATHER SERVER SETUP section, select the weather server (WEATHER UNDERGROUND or WEATHER-CLOUD) that you desire to upload.
2. Key in the "ID" and "key" that assigned by Weather underground or Weathercloud.
3. Check the box to start upload the weather data to your desired weather server.
4. If upload was successful, the  icon will be shown and you can view the data in your selected weather server's website or App.
5. If you have both weather server account, you can repeat the above step to setup both weather server.





The screenshot shows the 'WEATHER SERVER SETUP' form. It includes a dropdown menu for selecting the weather server (currently set to 'Weather Underground'), input fields for 'Station ID' (12342R) and 'Station Key' (vorquera), and a checked 'Auto Upload' checkbox. An 'UPLOAD' button with a green upload icon is visible. Annotations point to these elements: Step 1 points to the dropdown menu; Step 2 points to the Station ID field; Step 3 points to the Auto Upload checkbox; and 'Connection status' points to the UPLOAD button. A legend below shows a green upload icon for 'successful' and a red upload icon with a warning sign for 'failed'.

Step 1:
Select weather server for data upload

Step 2:
Enter the station ID

Enter the station key

Step 3:
Check to start upload

Connection status
 successful:
 failed

- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

Step 1:
Enter Start Date and End Date of the data export period or Check the “Whole period” box to export whole period data in the console.

Step 2:
Selected the desired Data Set for data export.

DATA EXPORT SETUP

DATA PERIOD

Start Date: - - (YYYY - MM - DD)

End Date: - - (YYYY - MM - DD) Whole period

DATA SET

Barometric pressure Rain data Outdoor dew point

Indoor temperature & humidity UV index Outdoor heat index

Outdoor temperature & humidity Wind data

Outdoor channel temperature & humidity

CH1 CH2 CH3 CH4 CH5 CH6 CH7

Select All Clear All Export

Step 3:
Once you selected data period and data set, click “Export” button to select the export file location and format.

During the data export process, the status bar will show the export progress, you can also click **✕** icon to stop.



- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

The export data file format can be .csv or .xls. These formats can be opened in MS Excel, Libre Office or similar application by using the table format shown below.

From columns A to S are the data of Console and 6-in-1 outdoor sensor.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Date	Time	Barometric pressure	Indoor temperature	Indoor humidity	Outdoor temperature	Outdoor humidity	Dew-point	Heat index	Wind speed	Wind gust	Wind chill	Wind direction	Rain rate	Hourly rainfall	Daily rainfall	Weekly rainfall	Monthly rainfall	UV index
yy-mm-dd	hh:mm	hPa(Rel)	°C	%	°C	%	°C	°C	km/h	km/h	°C	360*(Degree)	mm/h	mm	mm	mm	mm	index
2018-04-30	15:55	1011	25.9	65	25.1	69	18.9	26	0	0	25	307	0	0	0.254	0.4	1	0
2018-04-30	16:00	1011	25.9	65	25.1	68	18.7	26	0	0	24.9	315	0	0	0.254	0.4	2	0

From columns T to AG are the data of CH1 to CH7 wireless sensors.

T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
CH1 temperature	CH1 humidity	CH2 temperature	CH2 humidity	CH3 temperature	CH3 humidity	CH4 temperature	CH4 humidity	CH5 temperature	CH5 humidity	CH6 temperature	CH6 humidity	CH7 temperature	CH7 humidity
°C	%	°C	%	°C	%	°C	%	°C	%	°C	%	°C	%
23.8	67	23.1	57	22.2	59	24	62	21	64	22.7	60	23.2	59
23.7	67	23.2	57	22.2	59	24.1	62	21	65	22.7	61	23.2	59

SYSTEM REQUIREMENTS

- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

BASIC REQUIREMENTS	
Operation system:	Windows XP, Windows Vista, Windows 7 or latest version (32-bit / 64-bit)
Main memory:	1 GB RAM
Hard disk space:	50MB
Display resolution:	1360 x 768 (1920 x 1080 recommended)
Connection interface:	USB 2.0
EXPORT DATA FORMAT AND RELATED DETAIL	
Export data format:	.csv or .xls
View or edit export data:	Microsoft excel or other similar software for PC
WEATHER SERVER UPLOAD REQUIREMENTS	
Hardware:	PC or laptop that able to connect internet connection
Software:	Internet browser that support HTML5
Account:	Weather underground account

TROUBLESHOOTING

- **DASHBOARD**
 - Live Data
 - Status Information
- **EXPORT & SETUP**
 - Unit Setup
 - Weather Server Setup
 - Data Export Setup
 - Export Data Type
- **SYSTEM REQUIREMENTS**
- **TROUBLE SHOOT**

PROBLEMS	SOLUTION
Cannot open Weather Tool when double click the .exe icon.	<ul style="list-style-type: none"> – Make sure the Windows version fulfill the software's requirements. – Try to use the Windows administrator permission to open.
Missing all weather live data on the dashboard.	<ul style="list-style-type: none"> – Make sure the console connected to your PC by using USB cable. – Check the connection status on the status bar.
Missing the channel section's temperature and humidity live data.	<ul style="list-style-type: none"> – Since the product pack is not included the additional Thermo Hygro sensor(s), you require to purchase additional thermo hygro sensor(s) and paired with the console to get this live data. – The wireless sensor(s) communication has been lost or is intermittent or will not sync up, try to pair up again.
Missing the outdoor, wind, rain & UV live data.	<ul style="list-style-type: none"> – The 6-in-1 outdoor sensor communication has been lost or is intermittent or will not sync up, try to paired up again.
No weather data can be export, even the console memory is full.	<ul style="list-style-type: none"> – Make sure you select correct data period and check at least 1 data type before you export data.
The export data time stamp is not correct.	<ul style="list-style-type: none"> – Make sure your console time is correct, it is suggested to clear the data logger after you set up the time and installed the sensor(s).
Cannot upload the live data to Weather Underground and/or Weathercloud.	<ul style="list-style-type: none"> – Make sure you enter the valid station ID and key in the "WEATHER SERVER SECTION". – DO NOT copy and paste your station key from web browser, as it will add a lagging space. suggest you type it in. Also, it is easy to confuse the lower case letter l, upper case I and the number 1, as well as the number 0 and the letter O. – Make sure your PC always connected to internet. – The anti-virus or firewall may block the weather server upload process, you need set permission to allow this.
The console display data, live data in Weather tool and upload data is not match	<ul style="list-style-type: none"> – Since the live data and upload data have different refresh interval, it may cause the reading on PC software (Weather Tool) and Weather server (Weather underground & Weathercloud) have slightly different that compare with the console display readings. – If the readings have big different, you should do following action: <ol style="list-style-type: none"> 1. Ensure the connected console's PC is not in sleep or suspend mode. 2. Ensure the USB and network connection are normal.