Instruction Manual

BRESSER 4CAST PC

Digital Forecast Weather Station with wireless outdoor-transmitter, rain sensor, anemometer and PC-software

METEOTIME

CONTENT

Your Professional Meteotime Weather Station consists of:

- 4-Day Weather information, and
- Wireless Indoor/Outdoor measuring device for Wind, Rain, Thermo-hygrometer and the atmosphere pressure.

This package comes with

- Main Display Unit (Main Console)
- Wireless Wind-meter
- Wireless Rain-Guage
- Wireless Thermohygrometer

Key Features:

- Weather Status for today and coming three days for 470 cities
- Rain/Snow/Hail Probability for Today
- Wind Speed and Wind Direction for Today
- Five channel outdoor 433Mhz wireless Thermo-hygrometer
- Indoor Thermo-hygrometer
- Wireless Outdoor Wind speed and direction
- Wireless outdoor Rain Guage
- Sunrise and sunset display
- Moon phase
- History Record of wireless outdoor Temperature, Humidity, and atmosphere pressure
- Regional Day-time temperature and Night-time Temperature information. Night-time temperature for the 4th day will not be displayed.
- Critical Weather Alert
- Radio-controlled Clock and Calendar
- Time-zone setting
- Blue Backlight

Section 1 will depict on setting up to display the 4-Day Weather information that broadcasted via the stations for radio-controlled clocks HBG (located in Switzerland) and DCF (located in Germany)

Section 2 will depict on setting up to display the measuring data from Wireless Indoor/Outdoor device for Wind, Rain, Thermo-hygrometer and the atmosphere pressure.

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Section 1

Setting Up
Meteotime Weather Station

1.0 MUST READ BEFORE GETTING START

Your Meteotime Weather Station is different to traditional weather stations which measure the prevailing conditions only, the data of this weather station is based on the METEOTIME which is worked out on a daily basis by highly professional meteorologists using state-of-art instruments.

The Meteotime Weather Station is engineered in such a way that it is able to receive the coded METEOTIME signal containing the weather information. The information is broadcasted via the stations for radio-controlled clocks HBG (located in Switzerland) and DCF (located in Germany). For this reason, your Meteotime Weather Station is also a radio-controlled clock with all the known advantages, such as always showing the exact time, and automatic change to daylight saving time in winter and in summer.

You are able to receive weather forecasts for 60 meteorological regions within Europe for up to 4 days in advance, and offer 2-day-advance forecasts for an additional 30 regions.

WHAT DOES IT TAKE TO GET GOOD RECEPTION?

Similar to wireless signals like the mobile phone network or Radio/TV broadcasts, it is possible that the Meteotime Weather Stations do not receive signals all the time and everywhere. The following are some tips you should follow by all means to make sure that your device works properly:

The location for Meteotime Weather Station is very important. For this reason we have equipped all of them with an innovation test function (the TEST button) which enables you test the quality of reception in your environment and to place the device where the best conditions prevail.

Try your reception by testing your Meteotime Weather Station as stated in the manual. To do this, in the room you want to install the device, please turn on all the potential sources of interference (for example, a TV set). Then put the Meteotime Weather Station in the place and direction you want it to be, but always at least in one meter from the potential source of interference.

Watch the symbol GOOD RECEPTION or BAD RECEPTION on the display. Once you have found the right location for GOOD RECEPTION, you may leave the Meteotime Weather Station there, it will collect its data by radio controlled signal. Within a few minutes time and the date will appear. However, the transfer of the very large amount of data (forecast for all regions and days) will take much longer. To completely receive all data will take up to 24 hours from the time of the initial setup

POTENTIAL SOURCES OF INTERFERENCE

With all Meteotime Weather Stations, we should take measures to provide best possible radio reception. HBG and DCF are long wave stations with a broad reach (for example, approximate 1500km for the DCF station). However, as with a long wave radio station, interference may occur which is often caused by the following influences:

- In buildings with lots of concrete, metal parts, and the electrical equipment you may get reception problems (for example, in shopping centers and at exhibitions).
- Electronic equipment such as TVs, computers, household machines, etc., or transformers, power lines, radio transmitters, and trains are potential sources of interference.
- Atmospheric influences might affect the radio waves.
- The distance from the station, and also the geographic conditions (mountains, etc.) also affect the reception. Due to their great distance from the station, areas like Southern Italy or Northern Scandinavia are critical.
- So-called (dead-spots) which make reception impossible can appear everywhere
- There is less interference in rural area than in heavily built-up urban ones.
- On principle at night the sources of interference are less active, consequently reception is better than during the day.
- Week batteries in the device will lower the quality of reception.

DATA TRANSFER

METEOTIME sends the data during precisely defined time slots in accordance with UTC. (UTC, i.e. for Central Europe during the winter UTC+1, during the summer UTC+2; for Great Britain and Portugal during the winter UTC, during the summer UTC+1)

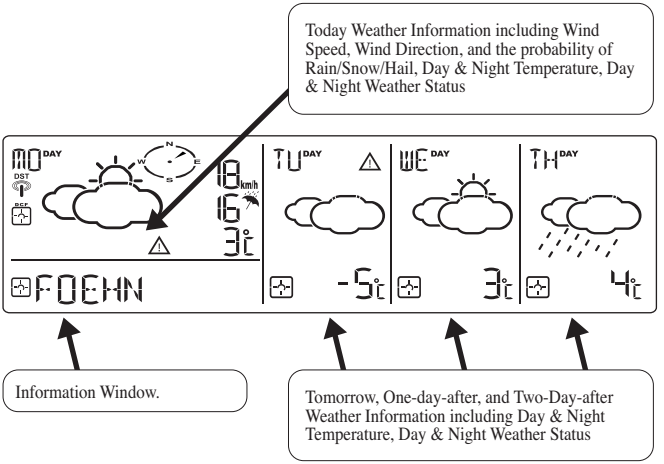
Transmission times (UTC)	Forecast for
10:00 p.m. – 03:59 a.m.	the actual (new) day (TODAY)
04:00 a.m. – 09:59 a.m.	the next day (TOMORROW)
10:00 a.m. – 03:59 p.m.	the following day (the day after TOMORROW)
04:00 p.m. – 06:59 p.m.	the day following this (Two days after TOMORROW)
07:00 p.m. – 09:59 p.m.	the 30 additional regions

In the even that the reception during the above time slots is completely or at times interfered with or has broken down, these forecasts, or parts of them, will be missing.

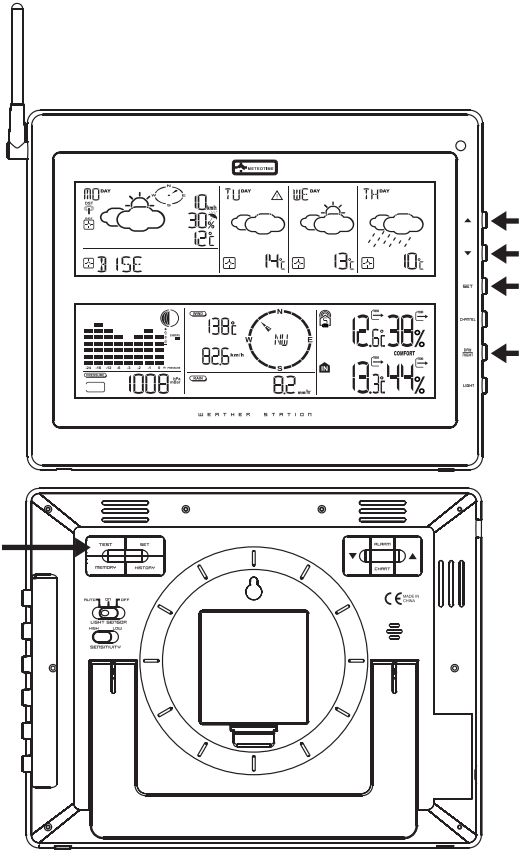
1.1 INTRODUCTION

The Meteotime Weather Station LCD display shows:

- Today Weather Information Window
- Tomorrow, One-day-after, and Two-day-after Weather Information
- Information Window which shows Time & Date, Sunrise & Sunset, Cities, and Critical Weather Information Description.



There are total 5 buttons at the Right side of main Unit for Setting up the Meteotime Weather Section, namely:



SET

- Selected City ⟷ Time + Date ⟷ Sunrise + Sunset
- Each press of [SET] will display the selected City, Time + Date or Sunrise + Sunset
- Press and HOLD [SET] for 3 second to select your <1> Country, <2> Time Zone, <3> Language, <4> Contrast of the LCD display

DAY / NIGHT

- Critical Whether Information ⟷ Time + Date ⟷ Day/Night Weather Status Change

▲

- increasing the value during setting
- Chose one of the pre-selected cities

▼

- decreasing the value during setting
- Chose one of the pre-selected cities

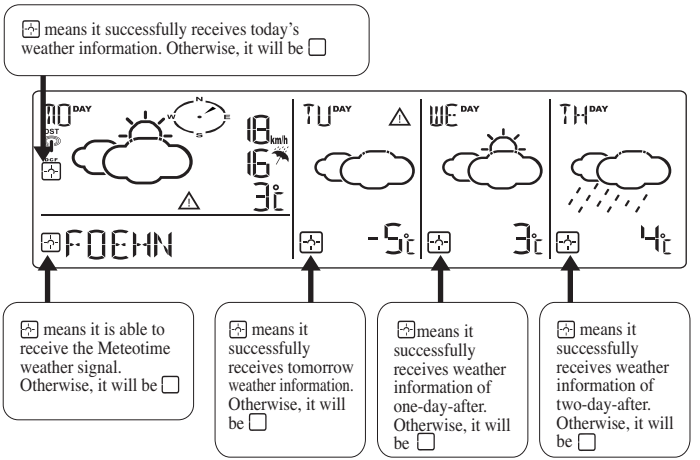
TEST √

- Find the place for the device which has a good reception
- Add the city into the list of your desired cities OR Remove the city out of the list of desired Cities
- Edit your home town

1.2 GETTING STARTED

- Insert the 4 batteries for remote units, and then insert batteries for the main unit.
- The main unit will automatically scan for the radio-controlled clock signal and the Meteotime Weather signal. " SUCHE SIG. " (means Search Signal) will show in the INFORMATION WINDOW.

  The time and date signal will be received in a few minutes. Since there is a large amount of Weather information for all regions and days, the unit needs about 24 hours from the time of the initial setup to complete the reception of all data
- After the time and date signal is being received successfully, the display shows "SELECT COUNTRY" and then "FRANKFURT" as default city in the information window.
  To change the Country and the City please see the information below.
- If the unit is able to receive the Meteotime signal successfully, the Meteotime icon is appeared in the second row of display. Otherwise, the Meteotime will be .



In the event the Meteotime icon change to ☐, that means there are potential sources of interference on the unit. The sources of interference may come from the electronics equipment such as TV-set, computers, household machines etc. It may also be due to lots of concrete, metal parts and electrical equipment in the building. It may also be due to your living area if it is very far away from the Radio-controlled clock tower.

By the first time you power up this product, the language default setting is in German Language. In order to change it into another language such as English, Spanish, French, Italian, Dutch, or Swedish, please follow the setup as below.

When you put in the batteries for the first time, wait until the Main Unit receives

- " SUCHE SIG. " (meaning in English is SEARCH SIGNAL); it will display in the INFORMATION WINDOW
- After several second, " LAND EINST" (meaning in English is COUNTRY) is shown in the INFORMATION WINDOW
- Press [SET] and " ZONE +00 H " is shown in the INFORMATION WINDOW
- Now press [SET] again and the " LANGUAGE " will be shown in the INFORMATION WINDOW, then press [▲] or [▼] to select your desired language. There are total seven languages to select, namely German, English, Spanish, French, Italian, Dutch, Swedish
- Press [SET] two times to exit the setup.

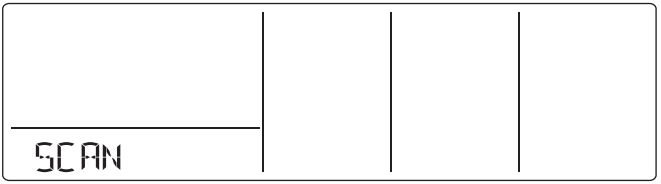
If you skip the above-mentioned step, the INFORMATION WINDOW will show the default city FRANKFURT.M. You can change to your desired city in the following steps.

- Press and Hold [SET] for 3 second, COUNTRY is shown in the Information Window, then press [▲] or [▼] key to select the country. For example, you have selected The country name such as D/GER means Germany
- Press [SET] key to confirm the Country (let's said we select Germany right now), and then the information window will show CITY.
- Then, press [▲] or [▼] key to go to your selected city, lets said 'Frankfurt am Main', and the FRANKFURTM will show in the information window.
- At least press [SET] to confirm your selected city.

1.3 OPERATION INSTRUCTION

You are able to use the TEST function to look for a better location

- Press TEST button, " SCAN " is shown in the Information Window.



- Pick the unit to find a good location.
- flashing : The test is running and the Meteotime signal reception is good. You are able to leave the device in this position.
  flashing : The test is running and the Meteotime signal reception is poor. You need to keep on looking for a better location.
- The test lasted for around 1 minute. You can restart the test with the [TEST] key at any time, and also discontinue the test by press the TEST key.

SWITCH CITY <- -> SUNRISE & SUNSET TIME <- -> TIME & DATE

- After inserting the batteries, the weather station searches for the Radio controlled Time signal as well as the MeteoTime signal. After it has successfully received the MeteoTime signal, the display shows in the information window "Select Country". After a few more minutes, the information windows the default city " FRANKFURTM ".
- You are able to press [SET] to switch from the display of the City to Sunrise & Sunset time OR Time & Date for Frankfurt am Main.

FRANKFURTM **[SET]** SUNRISE 6:19 SUNSET 19:38 **[SET]** 14:23 26° 5"

SELECT THE COUNTRY AND CITY / CITIES

- Press and Hold [SET] for 3 second , in the information window, COUNTRY is shown, and then press [▲] or [▼] key to select the country. For example, you have selected the country name such as D/GER means Germany will be shown in the information window.
- Press [SET] key to confirm the Country (let's said we select Germany right now), and then the information window will show CITY .
- Then, press [▲] or [▼] key to select the city, and the city name will be shown in the information window such as FRANKFURTM means the city 'Frankfurt am Main'

- If the city 'Frankfurt am Main' is your selection, then press [TEST √] key to confirm. A √ will be shown on top of your selected city, and it will be FRANKFURTM and 'Frankfurt am Main' will store into your personal memory list
- Then, you are able to press [▲] or [▼] key to select more cities, and then press [TEST √] key to confirm. You are able to select maximum FIVE cities to display. If you want to add more cities, then MEMFULL will show in the Information Window.

OR

press [SET] KEY to quit, and EXIT will shown at the information window.

REMARK: If you have skip the city selection in the first time you power up the unit, the product will default select Frankfurt am Main as your selected city.

DISPLAY MORE CITIES INFORMATION

If you have selected more than one city, let said you have select Frankfurt am Main, Köln and Münster in your desired city list, then you are able to press [▲] or [▼] key when the Information Window shows the CITY NAME (Press SET until it displays the City Name).

FRANKFURTM ←[▲/▼]→ KÖLN ←[▲/▼]→ MÜNSTER

When you selected the other city, the sunrise and sunset time, and weather information will be of this selected city.

REMOVE YOUR SELECTED THE CITY / CITIES OUT OF MEMORY LIST

- Press and Hold [SET] for 3 second, COUNTRY is shown in the Information Window, then press [▲] or [▼] key to select the country. For example, you have selected The country name such as D/GER means Germany
- Press [SET] key to confirm the Country (let's said we select Germany right now), and then the information window will show CITY.
- Then, press [▲] or [▼] key to go to your selected city, lets said 'Frankfurt am Main', and the FRANKFURTM will show in the information window.
- Press [TEST √] key to remove the √, and this city is successful to remove out of your list of preference cities you have selected.
- Then, you are able to press [▲] or [▼] key to select more cities, and then press [TEST √] key to remove your selected cities.

  OR

  Press [SET] KEY to quit, and EXIT will shown at the information window. After 4 second, it will go to the City-Date-Time Mode.

PERSONALIZE A PLACE NAME

- Press and Hold [SET] for 3 second. In the information window, COUNTRY is shown, and then press [▲] or [▼] key to select the country. Let's said you have selected the country Germany which is represented in D/GER.
- Press [SET] key to confirm the Country (let's said we select Germany right now), and then the information window will show CITY.
- Then, press [▲] or [▼] key to select the city, and the city name will be shown in the information window such as FRANKFURTM means the city 'Frankfurt am Main', and you would like to enter a new city which is near the region of Frankfurt am Main.
- Press the '**MEM**' key ; a *cursor flashes* on the first position of the Information Window

Then following input commands then apply:

KEY	**Function**
' ▲ ' or ' ▼ '	Selection of a letter
SET	<1> Accept the selected letter and jumps to the next position. OR <2> If you have not entered any letter (in other words, if only the cursor is flashing at the last position), confirm the entry with this key and your place will also be included in the memory with immediate effect
TEST	One position back in the data entry process

** The place that you have selected to enter your own description will still exist under its own name.

- Press [SET] key to confirm and exit

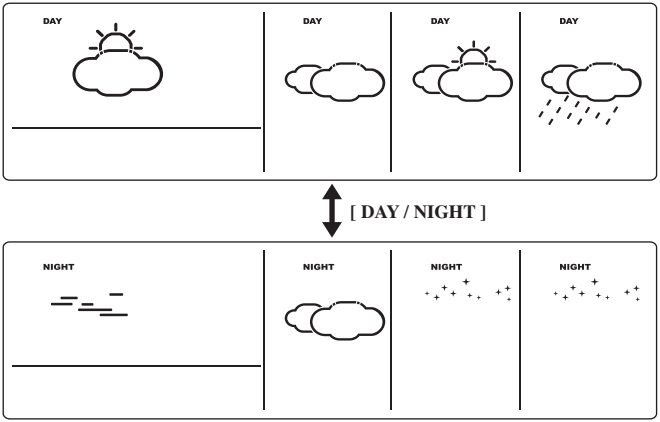
SET THE TIME ZONE, LANGUAGE and CONTRAST

- Press and Hold [SET] for 3 second, COUNTRY is shown in the Information Window.
- Press [SET] again, then ZONE +00HR is shown in the Information Window, press [▲] or [▼] key to adjust the time zone.
- Press [SET] again, then the LANGUAGE will be shown in the Information Window, press [▲] or [▼] key to select your desired language. There are total Seven Language for selection, namely German, English, Spanish, French, Italiano, Dutch, Swedish
- Press [SET] again, then CONTRAST, 3 is shown in the Information Window, press [▲] or [▼] key to adjust the LCD contrast Level.
- Press [SET] again and EXIT will shown at the information window. After 4 second, it will go to the City-Date-Time Mode

Remark: If you do not have any selection into the Setup mode up to 60 seconds, it will automatically exit the setup mode. The Information Window will show City / Sunrise & Sunset Time / Time & Date.

SWITCH DAY WEATHER INFORMATION <- ->NIGHT WEATHER INFORMATION

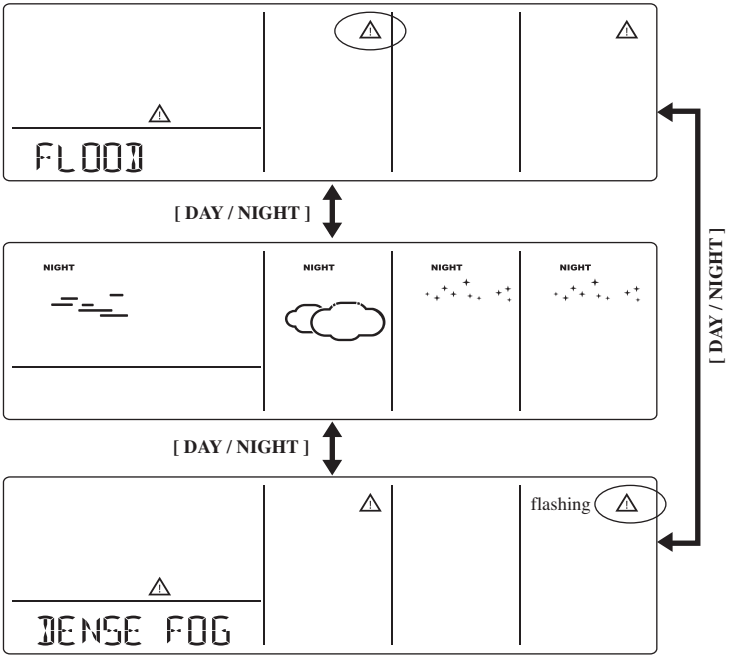
The device is able to base on the SUNRISE time and SUNSET time to automatically switch to DAY-WEATHER and NIGHT-WEATHER respectively. The unit is preset to show DAY-WEATHER after sunrise time, and NIGHT-WEATHER after SUNSET time. The user can press the [DAY / NIGHT] button to see the DAY-Weather (for 10-second period) if currently show the NIGHT-WEATHER, or vice verse.



CRITICAL WEATHER INFORMATION

Meteotime Weather signal contains the Critical Weather Information such as Gust, Frozen Rain, Heavy Snow, Thunder, Strong UV, Dense Fog, Bise, Mistral, etc. for today and coming three days. A critical weather alert signal ⚠ will be turned on in case that day has critical weather that the user must know.

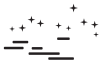
Sometimes there are more than one critical weather information in the 4-days. Press [DAY / NIGHT] key to read the critical weather information one by one. The special icon of the day will be flashed when you read the Information.



- Press [SET] key to go back to the display of **CITY <- -> SUNRISE & SUNSET TIME <- -> TIME & DATE**. If you would like to read the Weather Information in the information window, then press [DAY / NIGHT] Key to display Day **<- ->** Night Weather information and also the Critical Weather Information.

If no key is pressed, the critical weather information will be toggle to display, so as to make sure you are aware of the critical weather details

1.4 WEATHER STATUS

Significance	Day	Night
Sunny (Clear at night)		
Light Cloudy		
Mostly Cloudy		
Overcast		
Stratus Clouds		
Fog		
Showers		
Light Rain		

Significance	Day	Night
Heavy Rain		
Frontal Storms		
Heat Storms		
Sleet Showers		
Snow Showers		
Sleet		
Snow		

1.5 CITIES

There are a total of 470 cities information included in memory.
The cities of the name with * will only have 2-day weather status.

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
ANDORRA LA VELLA*	AND.LA.VELL*	ANDORRA	70
ST PÖLTEN	ST.PÖLTEN	AU/AUSTRIA	50
BISCHOFSHOFEN	BISCHOFSHO	AU/AUSTRIA	48
BREGENZ	BREGENZ	AU/AUSTRIA	48
EISENSTADT	EISENSTADT	AU/AUSTRIA	49
GRAZ	GRAZ	AU/AUSTRIA	46
INNSBRUCK	INNSBRUCK	AU/AUSTRIA	47
KITZBÜHEL	KITZBÜHEL	AU/AUSTRIA	48
KLAGENFURT	KLAGENFURT	AU/AUSTRIA	46
LANDECK	LANDECK	AU/AUSTRIA	47
LIENZ	LIENZ	AU/AUSTRIA	46
LINZ	LINZ	AU/AUSTRIA	26
SALZBURG	SALZBURG	AU/AUSTRIA	48
SCHLADMING	SCHLADMING	AU/AUSTRIA	48
VILLACH	VILLACH	AU/AUSTRIA	46
WELS	WELS	AU/AUSTRIA	26
WIEN	WIEN	AU/AUSTRIA	49
ZELTWEG	ZELTWEG	AU/AUSTRIA	46
ZWETTL	ZWETTL	AU/AUSTRIA	50
ANTWERPEN	ANTWERPEN	B/BELGIUM	6
BRUGGE	BRUGGE	B/BELGIUM	6
BRUSSEL	BRUSSEL	B/BELGIUM	6
CHARLEROI	CHARLEROI	B/BELGIUM	6
GENT	GENT	B/BELGIUM	6
LIEGE	LIEGE	B/BELGIUM	6
NAMUR	NAMUR	B/BELGIUM	6
VERVIERS	VERVIERS	B/BELGIUM	13
ST.GALLEN	ST.GALLEN	CH/SUISSE	35
AARAU	AARAU	CH/SUISSE	32
ADELBODEN	ADELBODEN	CH/SUISSE	33
ALTDORF	ALTDORF	CH/SUISSE	35
BASEL	BASEL	CH/SUISSE	45
BELLINZONA	BELLINZONA	CH/SUISSE	38
BERN	BERN	CH/SUISSE	32
BIENNE	BIENNE	CH/SUISSE	32
BRIG	BRIG	CH/SUISSE	34
CHUR	CHUR	CH/SUISSE	36
DAVOS	DAVOS	CH/SUISSE	36
DELEMONT	DELEMONT	CH/SUISSE	11

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
FRAUENFELD	FRAUENFELD	CH/SUISSE	32
FRIBOURG	FRIBOURG	CH/SUISSE	31
GENEVE	GENEVE	CH/SUISSE	31
GLARUS	GLARUS	CH/SUISSE	35
GRINDELWALD	GRINDELWLD	CH/SUISSE	33
INTERLAKEN	INTERLAKEN	CH/SUISSE	33
LA CHAUX-DE-FONDS	LACHAUX-D.F	CH/SUISSE	11
LAUSANNE	LAUSANNE	CH/SUISSE	31
LIESTAL	LIESTAL	CH/SUISSE	45
LOCARNO	LOCARNO	CH/SUISSE	38
LUGANO	LUGANO	CH/SUISSE	38
LUZERN	LUZERN	CH/SUISSE	32
MARTIGNY	MARTIGNY	CH/SUISSE	34
MONTREUX	MONTREUX	CH/SUISSE	31
NEUCHATEL	NEUCHATEL	CH/SUISSE	31
SAMEDAN*	SAMEDAN*	CH/SUISSE	86
SARNEN	SARNEN	CH/SUISSE	35
SCHAFFHAUSEN	SCHAFFHAUS.	CH/SUISSE	32
SCHWYZ	SCHWYZ	CH/SUISSE	35
SION	SION	CH/SUISSE	34
SOLOTHURN	SOLOTHURN	CH/SUISSE	32
STANS	STANS	CH/SUISSE	35
ZERMATT*	ZERMATT*	CH/SUISSE	88
ZUG	ZUG	CH/SUISSE	32
ZÜRICH	ZÜRICH	CH/SUISSE	32
BRNO	BRNO	CZ/CZ REP	50
BUDEJOVICE	BUDEJOVICE	CZ/CZ REP	50
CHEB	CHEB	CZ/CZ REP	50
DECIN	DECIN	CZ/CZ REP	51
HAVLICKAV BROD	HAVL_BROD	CZ/CZ REP	50
HRADEC/KRA	HRADEC/KRA	CZ/CZ REP	50
OLOMOUC	OLOMOUC	CZ/CZ REP	50
OSTRAVA	OSTRAVA	CZ/CZ REP	50
PLZEN	PLZEN	CZ/CZ REP	50
PRAHA	PRAHA	CZ/CZ REP	50
TEPLICE	TEPLICE	CZ/CZ REP	51
AACHEN	AACHEN	D / GER	14
AALEN	AALEN	D / GER	59
ANSBACH	ANSBACH	D / GER	28
AUGSBURG	AUGSBURG	D / GER	25
BAD_TÖLZ	BAD_TÖLZ	D / GER	48
BAYREUTH	BAYREUTH	D / GER	28

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
BERCHTESGADEN	BERCHTESGA	D / GER	48
BERLIN	BERLIN	D / GER	52
BIELEFELD	BIELEFELD	D / GER	14
BITBURG	BITBURG	D / GER	13
BORKUM	BORKUM	D / GER	19
BREMEN	BREMEN	D / GER	22
BREMERHAVEN	BREMERHAVN	D / GER	19
BURGHAUSEN	BURGHAUSEN	D / GER	26
COTTBUS	COTTBUS	D / GER	29
CUXHAVEN	CUXHAVEN	D / GER	19
DONAUESCHINGEN	DONAUESCH.	D / GER	57
DORTMUND	DORTMUND	D / GER	14
DRESDEN	DRESDEN	D / GER	29
DUISBURG	DUISBURG	D / GER	14
DÜSSELDORF	DÜSSELDORF	D / GER	14
EISENACH	EISENACH	D / GER	30
EMDEN	EMDEN	D / GER	19
ERFURT	ERFURT	D / GER	30
ESSEN	ESSEN	D / GER	14
FEHMARN	FEHMARN	D / GER	24
FLENSBURG	FLENSBURG	D / GER	24
FRANKFURT AM MAIN	FRANKFURT.M	D / GER	12
FRANKFURT a.d. ODER	FRANKFURT.O	D / GER	52
FREIBURG	FREIBURG	D / GER	45
FREUDENSTADT	FREUDENST.	D / GER	57
FRIEDRICHSHAFEN	FRIEDRI.HFN	D / GER	26
FULDA	FULDA	D / GER	37
GARMISCH_PATENK.	GARMISCH_P	D / GER	48
GIESSEN	GIESSEN	D / GER	37
GÖRLITZ	GÖRLITZ	D / GER	29
GOSLAR	GOSLAR	D / GER	22
GÖTTINGEN	GÖTTINGEN	D / GER	37
GREIFSWALD	GREIFSWALD	D / GER	24
HAGEN	HAGEN	D / GER	13
HALLE	HALLE	D / GER	29
HAMBURG	HAMBURG	D / GER	19
HANNOVER	HANNOVER	D / GER	22
HEILBRONN	HEILBRONN	D / GER	59
HILDESHEIM	HILDESHEIM	D / GER	22
HOF	HOF	D / GER	30
INGOLSTADT	INGOLSTADT	D / GER	25
JENA	JENA	D / GER	30

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
KAISERSLAUTERN	KAISERSLAU	D / GER	12
KARLSRUHE	KARLSRUHE	D / GER	12
KASSEL	KASSEL	D / GER	37
KEMPTEN	KEMPTEN	D / GER	26
KIEL	KIEL	D / GER	24
KOBLENZ	KOBLENZ	D / GER	13
KÖLN	KÖLN	D / GER	14
KONSTANZ	KONSTANZ	D / GER	32
LANDSHUT	LANDSHUT	D / GER	25
LEIPZIG	LEIPZIG	D / GER	29
LINDAU	LINDAU	D / GER	48
LINGEN	LINGEN	D / GER	14
LÖRRACH	LÖRRACH	D / GER	45
LÜBECK	LÜBECK	D / GER	24
LÜNEBURG	LÜNEBURG	D / GER	22
MAGDEBURG	MAGDEBURG	D / GER	22
MAINZ	MAINZ	D / GER	12
MANNHEIM	MANNHEIM	D / GER	12
MÜNCHEN	MÜNCHEN	D / GER	26
MÜNSTER	MÜNSTER	D / GER	14
NEUBRANDENBURG	NEUBR.BURG	D / GER	52
NÜRNBERG	NÜRNBERG	D / GER	28
OFFENBURG	OFFENBURG	D / GER	45
OLDENBURG	OLDENBURG	D / GER	22
OSNABRÜCK	OSNABRÜCK	D / GER	14
PASSAU	PASSAU	D / GER	25
PFORZHEIM	PFORZHEIM	D / GER	59
PLAUEN	PLAUEN	D / GER	30
POTSDAM	POTSDAM	D / GER	52
REGENSBURG	REGENSBURG	D / GER	25
ROSENHEIM	ROSENHEIM	D / GER	26
ROSTOCK	ROSTOCK	D / GER	24
RÜGEN	RÜGEN	D / GER	24
SAARBRÜCKEN	SAARBRÜCKE	D / GER	13
SIEGEN	SIEGEN	D / GER	13
SIGMARINGEN	SIGMARINGE	D / GER	26
SPIEKEROOG	SPIEKEROOG	D / GER	19
ST_PETER_ORDING	ST_PETER_O	D / GER	19
STUTTGART	STUTTGART	D / GER	59
SYLT	SYLT	D / GER	19
TRIER	TRIER	D / GER	13
TÜBINGEN	TÜBINGEN	D / GER	59

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
ULM	ULM	D / GER	25
VILLINGEN-SCHW.	VILL.-SCHWE.	D / GER	57
WEIDEN	WEIDEN	D / GER	28
WERTHEIM	WERTHEIM	D / GER	28
WILHELMSHAVEN	WILHELMSHA	D / GER	19
WUPPERTAL	WUPPERTAL	D / GER	14
WÜRZBURG	WÜRZBURG	D / GER	28
ZWICKAU	ZWICKAU	D / GER	30
ALBORG	ALBORG	DK/DENMARK	20
ARHUS	ARHUS	DK/DENMARK	21
BORNHOLM	BORNHOLM	DK/DENMARK	55
ESBJERG	ESBJERG	DK/DENMARK	20
HERNING	HERNING	DK/DENMARK	20
KØBENHAVN	KØBENHAVN	DK/DENMARK	23
NYKOPING	NYKOPING	DK/DENMARK	54
ODENSE	ODENSE	DK/DENMARK	21
RONNE	RONNE	DK/DENMARK	55
SKAGEN	SKAGEN	DK/DENMARK	20
THYBORØN	THYBORØN	DK/DENMARK	20
BARCELONA*	BARCELONA*	ES / SPAIN	69
BILBAO*	BILBAO*	ES / SPAIN	65
FIGUERES*	FIGUERES*	ES / SPAIN	69
GIJON*	GIJON*	ES / SPAIN	74
GIRONA*	GIRONA*	ES / SPAIN	69
IBIZA*	IBIZA*	ES / SPAIN	67
LLORET DE MAR*	LLORET.D.MA*	ES / SPAIN	69
MADRID*	MADRID*	ES / SPAIN	64
MAHON*	MAHON*	ES / SPAIN	67
PALMA DE MALLORCA*	PALMA-D.MA*	ES / SPAIN	67
SEVILLA*	SEVILLA*	ES / SPAIN	71
VALENCIA*	VALENCIA*	ES / SPAIN	68
VADUZ	VADUZ	FL/LICHTEN	48
AGEN	AGEN	FRANCE	0
AJACCIO*	AJACCIO*	FRANCE	73
ALBI	ALBI	FRANCE	5
ALENCON	ALENCON	FRANCE	2
ALES	ALES	FRANCE	8
AMIENS	AMIENS	FRANCE	17
ANGERS	ANGERS	FRANCE	3
ANGOULEME	ANGOULEME	FRANCE	1
ANNECY	ANNECY	FRANCE	11
AUCH	AUCH	FRANCE	0

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
AURILLAC	AURILLAC	FRANCE	4
AUXERRE	AUXERRE	FRANCE	2
AVIGNON	AVIGNON	FRANCE	8
BAR_LE_DUC	BAR_LE_DUC	FRANCE	2
BASTIA*	BASTIA*	FRANCE	73
BEAUVAIS	BEAUVAIS	FRANCE	17
BELFORT	BELFORT	FRANCE	45
BESANCON	BESANCON	FRANCE	11
BEZIERS	BEZIERS	FRANCE	5
BLOIS	BLOIS	FRANCE	2
BOBIGNY	BOBIGNY	FRANCE	2
BORDEAUX	BORDEAUX	FRANCE	0
BOULOGNE	BOULOGNE	FRANCE	6
BOURG_EN_B	BOURG_EN_B	FRANCE	9
BOURGES	BOURGES	FRANCE	2
BREST	BREST	FRANCE	3
BRIANCON	BRIANCON	FRANCE	10
BRIVE LA GAILLARDE	BRIVE-L-GA	FRANCE	0
CAEN	CAEN	FRANCE	17
CAHORS	CAHORS	FRANCE	0
CANNES	CANNES	FRANCE	43
CARCASSONN	CARCASSONN	FRANCE	5
CERGY_PONT	CERGY_PONT	FRANCE	2
CHAMBERY	CHAMBERY	FRANCE	10
CHARTRES	CHARTRES	FRANCE	2
CHAUMONT	CHAUMONT	FRANCE	7
CHERBOURG	CHERBOURG	FRANCE	3
CLERMON FERRAND	CLERMON-FE	FRANCE	4
COLMAR	COLMAR	FRANCE	45
CRETEIL	CRETEIL	FRANCE	2
DIGNE	DIGNE	FRANCE	10
DIJON	DIJON	FRANCE	7
EPINAL	EPINAL	FRANCE	7
EVIAN	EVIAN	FRANCE	31
EVREUX	EVREUX	FRANCE	17
EVRY	EVRY	FRANCE	2
FLORAC	FLORAC	FRANCE	4
FOIX	FOIX	FRANCE	5
GAP	GAP	FRANCE	10
GRENOBLE	GRENOBLE	FRANCE	10
GUERET	GUERET	FRANCE	4
LA ROCHELL	LA ROCHELL	FRANCE	1

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
LA_ROCHE_S	LA_ROCHE_S	FRANCE	1
LAON	LAON	FRANCE	17
LAVAL	LAVAL	FRANCE	3
LE HAVRE	LE HAVRE	FRANCE	17
LE MANS	LE MANS	FRANCE	2
LILLE	LILLE	FRANCE	6
LIMOGES	LIMOGES	FRANCE	1
LONS_LE_S	LONS_LE_S	FRANCE	7
LORIENT	LORIENT	FRANCE	3
LYON	LYON	FRANCE	9
MACON	MACON	FRANCE	9
MARSEILLE	MARSEILLE	FRANCE	8
MELUN	MELUN	FRANCE	2
MENDE	MENDE	FRANCE	4
METZ	METZ	FRANCE	7
MILLAU	MILLAU	FRANCE	4
MONT_MARSAN	MONT_DE_MA	FRANCE	0
MONTAUBAN	MONTAUBAN	FRANCE	0
MONTELIMAR	MONTELIMAR	FRANCE	8
MONTLUCON	MONTLUCON	FRANCE	4
MONTPELLIER	MONTPELLIE	FRANCE	5
MULHOUSE	MULHOUSE	FRANCE	45
NANCY	NANCY	FRANCE	7
NANTERRE	NANTERRE	FRANCE	2
NANTES	NANTES	FRANCE	3
NEVERS	NEVERS	FRANCE	2
NICE	NICE	FRANCE	43
NIMES	NIMES	FRANCE	8
NIORT	NIORT	FRANCE	1
ORLEANS	ORLEANS	FRANCE	2
PARIS	PARIS	FRANCE	2
PAU	PAU	FRANCE	0
PERIGUEUX	PERIGUEUX	FRANCE	0
PERPIGNAN	PERPIGNAN	FRANCE	5
POITIERS	POITIERS	FRANCE	1
PRIVAS	PRIVAS	FRANCE	8
PUY_VELAY	PUY_EN_VEL	FRANCE	4
REIMS	REIMS	FRANCE	2
RENNES	RENNES	FRANCE	3
RODEZ	RODEZ	FRANCE	4
ROUEN	ROUEN	FRANCE	17
SEDAN	SEDAN	FRANCE	13

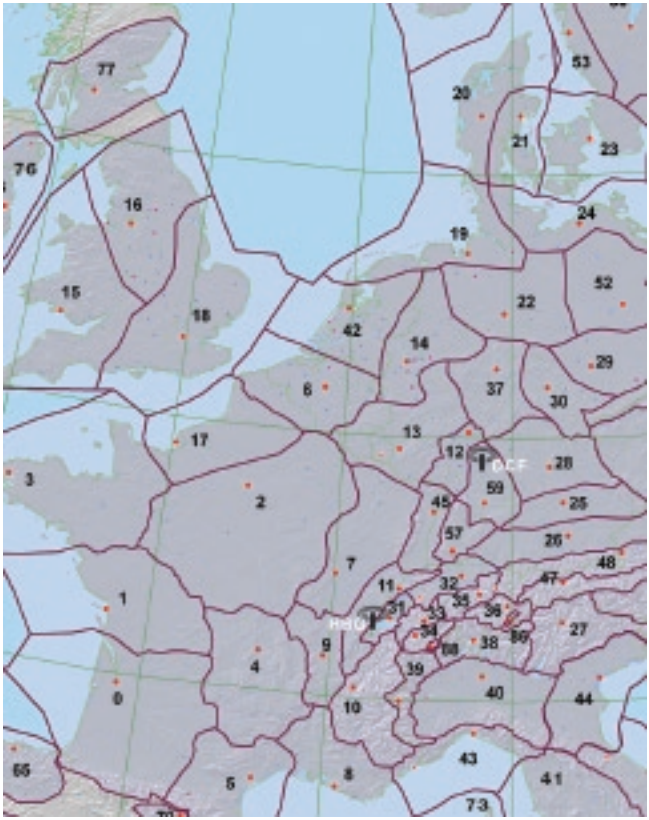
CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
ST_BRIEUC	ST_BRIEUC	FRANCE	3
ST_FLOUR	ST_FLOUR	FRANCE	4
ST_TROPEZ	ST_TROPEZ	FRANCE	8
ST-ETIENNE	ST-ETIENNE	FRANCE	4
STRASBOURG	STRASBOURG	FRANCE	45
TARBES	TARBES	FRANCE	0
TOULON	TOULON	FRANCE	8
TOULOUSE	TOULOUSE	FRANCE	0
TOURS	TOURS	FRANCE	2
TROYES	TROYES	FRANCE	2
VALENCE	VALENCE	FRANCE	9
VERSAILLES	VERSAILLES	FRANCE	2
VESOUL	VESOUL	FRANCE	7
BUDAPEST*	BUDAPEST*	H/HUNGARY	63
DEBRECEN*	DEBRECEN*	H/HUNGARY	63
GYÖR	GYÖR	H/HUNGARY	49
MISKOLC*	MISKOLC*	H/HUNGARY	63
PECS*	PECS*	H/HUNGARY	63
SIOFOK*	SIOFOK*	H/HUNGARY	63
SZEGED*	SZEGED*	H/HUNGARY	63
SZOLNOK*	SZOLNOK*	H/HUNGARY	63
TATABANYA*	TATABANYA*	H/HUNGARY	63
OSIJEK*	OSIJEK*	HR/CROATIA	87
RIJEKA	RIJEKA	HR/CROATIA	44
SPLIT*	SPLIT*	HR/CROATIA	89
ZAGREB*	ZAGREB*	HR/CROATIA	87
ALESSANDRIA	ALESSANDRI	I / ITALY	40
ANCONA*	ANCONA*	I / ITALY	61
AOSTA	AOSTA	I / ITALY	39
BARI*	BARI*	I / ITALY	62
BERGAMO	BERGAMO	I / ITALY	40
BOLOGNA	BOLOGNA	I / ITALY	44
BOLZANO	BOLZANO	I / ITALY	27
BRESCIA	BRESCIA	I / ITALY	40
CAGLIARI*	CAGLIARI*	I / ITALY	73
CATANIA*	CATANIA*	I / ITALY	66
COSENZA*	COSENZA*	I / ITALY	66
EDOLO	EDOLO	I / ITALY	38
FIRENZE	FIRENZE	I / ITALY	41
FOGGIA*	FOGGIA*	I / ITALY	62
GENOVA	GENOVA	I / ITALY	43
LA SPEZIA	LA SPEZIA	I / ITALY	43

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
LECCE*	LECCE*	I / ITALY	62
MERANO	MERANO	I / ITALY	27
MESSINA*	MESSINA*	I / ITALY	66
MILANO	MILANO	I / ITALY	40
NAPOLI*	NAPOLI*	I / ITALY	60
PALERMO*	PALERMO*	I / ITALY	66
PARMA	PARMA	I / ITALY	40
PERUGIA	PERUGIA	I / ITALY	41
PESCARA*	PESCARA*	I / ITALY	61
PIACENZA	PIACENZA	I / ITALY	40
PISA	PISA	I / ITALY	41
REGGIO CALABRIA*	R.CALABRIA*	I / ITALY	66
RIMINI	RIMINI	I / ITALY	44
ROMA	ROMA	I / ITALY	41
SAN_MARINO*	SAN_MARIN*	I / ITALY	61
SAN_REMO	SAN_REMO	I / ITALY	43
SASSARI*	SASSARI*	I / ITALY	73
SESTRIERE	SESTRIERE	I / ITALY	39
SIENA	SIENA	I / ITALY	41
TORINO	TORINO	I / ITALY	40
TRENTO	TRENTO	I / ITALY	27
TRIESTE	TRIESTE	I / ITALY	44
UDINE	UDINE	I / ITALY	44
VENEZIA	VENEZIA	I / ITALY	44
VERONA	VERONA	I / ITALY	40
CORK*	CORK*	IRELAND	75
DUBLIN*	DUBLIN*	IRELAND	76
GALWAY*	GALWAY*	IRELAND	75
LIMERICK*	LIMERICK*	IRELAND	75
LUXEMBOURG	LUXEMBOURG	LUX	13
MONACO	MONACO	MONACO	43
BERGEN*	BERGEN*	N / NORWAY	78
DRAMMEN	DRAMMEN	N / NORWAY	58
FREDRIKSTADEN	FREDRIKST.	N / NORWAY	58
OSLO	OSLO	N / NORWAY	58
STAVANGER*	STAVANGER*	N / NORWAY	78
TØNSBERG	TØNSBERG	N / NORWAY	58
TRONDHEIM*	TRONDHEIM*	N / NORWAY	79
AMSTERDAM	AMSTERDAM	NL/NETHERL	42
ARNHEM	ARNHEM	NL/NETHERL	42
ASSEN	ASSEN	NL/NETHERL	42
DEN HAAG	DEN HAAG	NL/NETHERL	42

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
DEN HELDER	DEN HELDER	NL/NETHERL	19
EINDHOVEN	EINDHOVEN	NL/NETHERL	42
GRONINGEN	GRONINGEN	NL/NETHERL	19
HAARLEM	HAARLEM	NL/NETHERL	42
LEEUWARDEN	LEEUWARDEN	NL/NETHERL	19
LELYSTAD	LELYSTAD	NL/NETHERL	42
MAASTRICHT	MAASTRICHT	NL/NETHERL	6
MIDDELBURG	MIDDELBURG	NL/NETHERL	6
ROTTERDAM	ROTTERDAM	NL/NETHERL	42
S.HERTOGENBOSCH	S.HERTOGENB	NL/NETHERL	42
TERNEUZEN	TERNEUZEN	NL/NETHERL	6
TEXEL	TEXEL	NL/NETHERL	19
UTRECHT	UTRECHT	NL/NETHERL	42
ZWOLLE	ZWOLLE	NL/NETHERL	42
LISBOA*	LISBOA*	P/PORTUGAL	72
BIALYSTOK*	BIALYSTOK*	PL/POLAND	82
BIELSKO*	BIELSKO*	PL/POLAND	83
GDANSK*	GDANSK*	PL/POLAND	81
KATOWICE*	KATOWICE*	PL/POLAND	83
KIELCE*	KIELCE*	PL/POLAND	83
KRAKOW*	KRAKOW*	PL/POLAND	83
LODZ*	LODZ*	PL/POLAND	82
LUBLIN*	LUBLIN*	PL/POLAND	82
OLSZTYN*	OLSZTYN*	PL/POLAND	81
POZNAN	POZNAN	PL/POLAND	52
RZESZOW*	RZESZOW*	PL/POLAND	83
SZCZECIN*	SZCZECIN*	PL/POLAND	63
TORUN*	TORUN*	PL/POLAND	82
WALBRZYCH	WALBRZYCH	PL/POLAND	51
WARSZAWA*	WARSZAWA*	PL/POLAND	82
WROCLAW	WROCLAW	PL/POLAND	29
ZAKOPANE*	ZAKOPANE*	PL/POLAND	83
BORAS	BORAS	S/SWEDEN	56
BORGHOLM	BORGHOLM	S/SWEDEN	55
FALUN*	FALUN*	S/SWEDEN	85
GÄVLE	GÄVLE	S/SWEDEN	54
GÖTEBORG	GÖTEBORG	S/SWEDEN	53
HALMSTAD	HALMSTAD	S/SWEDEN	53
JÖNKÖPING	JÖNKÖPING	S/SWEDEN	56
KALMAR	KALMAR	S/SWEDEN	55
KARLSTAD	KARLSTAD	S/SWEDEN	56
LINKÖPING	LINKÖPING	S/SWEDEN	55

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
MALMÖ	MALMÖ	S/SWEDEN	23
ÖREBRO	ÖREBRO	S/SWEDEN	56
ÖSTERSUND*	ÖSTERSUND*	S/SWEDEN	85
STOCKHOLM	STOCKHOLM	S/SWEDEN	54
SUNDSVALL*	SUNDSVALL*	S/SWEDEN	80
UMEA*	UMEA*	S/SWEDEN	84
UPPSALA	UPPSALA	S/SWEDEN	54
VÄSTERAS	VÄSTERAS	S/SWEDEN	54
VISBY	VISBY	S/SWEDEN	55
BRANSKA*	BRANSKA*	SK/SLOVAKI	63
BRATISLAVA	BRATISLAVA	SK/SLOVAKI	49
KOSICE*	KOSICE*	SK/SLOVAKI	63
TRENCIN	TRENCIN	SK/SLOVAKI	49
LJUBLJANA	LJUBLJANA	SLOVENIA	46
MARIBOR	MARIBOR	SLOVENIA	46
NOVA GORIC	NOVA GORIC	SLOVENIA	44
ABERDEEN*	ABERDEEN*	UK	77
BELFAST*	BELFAST*	UK	76
BIRMINGHAM	BIRMINGHAM	UK	16
BLACKPOOL	BLACKPOOL	UK	16
BOURNEMOUT	BOURNEMOUT	UK	18
BRIGHTON	BRIGHTON	UK	18
BRISTOL	BRISTOL	UK	15
CAMBRIDGE	CAMBRIDGE	UK	18
CARDIFF	CARDIFF	UK	15
DOVER	DOVER	UK	18
EDINBURGH*	EDINBURGH*	UK	77
EXETER	EXETER	UK	15
GLASGOW*	GLASGOW*	UK	77
HOLYHEAD	HOLYHEAD	UK	15
IPSWICH	IPSWICH	UK	18
ISLE_OF_MAN*	ISLE_O_MA*	UK	77
JERSEY	JERSEY	UK	3
KINGSTON	KINGSTON	UK	18
LEEDS	LEEDS	UK	16
LEICESTER	LEICESTER	UK	16
LIVERPOOL	LIVERPOOL	UK	16
LONDON	LONDON	UK	18
MANCHESTER	MANCHESTER	UK	16
MIDDLESBROUGH	MIDDLESBRO	UK	16
NEWCASTLE	NEWCASTLE	UK	16
NORTHAMPTON	NORTHAMPTO	UK	18

CITY FULL NAME	CITY NAME at Information Window	COUNTRY NAME	REGION
NORWICH	NORWICH	UK	18
NOTTINGHAM	NOTTINGHAM	UK	16
OXFORD	OXFORD	UK	18
PLYMOUTH	PLYMOUTH	UK	15
PORTSMOUTH	PORTSMOUTH	UK	18
READING	READING	UK	18
SHEFFIELD	SHEFFIELD	UK	16
SOUTHAMPTON	SOUTHAMPTO	UK	18
ST_DAVIDS	ST_DAVIDS	UK	15
SWANSEA	SWANSEA	UK	15
VATICANO	VATICANO	V/VATICANO	41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CRITICAL WEATHER MESSAGE IN 10 LETTERS SHORT FORM IN DIFFERENT LANGUAGES

ENGLISH	ENGLISH SHORT FORM IN INFORMATION WINDOW
HEAVY WEATHER	HEAVY.WEATH.
HEAVY WEATHER DAY	HEAVY.WEATH.
HEAVY WEATHER NIGHT	HEAVY.WEATH.
STORM	STORM
STORM DAYTIME	DAY.STORM
STORM NIGHTTIME	NIGHT.STORM
STRONG GUST DAYTIME	DAY.GUST
STRONG GUST NIGHTTIME	NIGHT.GUST
FREEZING RAIN A.M.	FROZEN.RAIN
FREEZING RAIN P.M.	FROZEN.RAIN
FREEZING RAIN NIGHTTIME	FROZEN.RAIN
FINE PARTICLES PM10	PARTICLES
OZONE	OZONE
IRRADIATION	IRRATE
FLOOD	FLOOD
DENSE FOG	DENSE FOG
HEAVY RAIN	HEAVY RAIN
HEAVY RAIN	HEAVY RAIN
HEAVY SNOWFALL	HEAVY SNOW
HEAVY THUNDERSTORM	THUNDER
STRONG UV	STRONG UV
DENSE FOG DAYTIME	DENSE FOG
HEAVY RAIN DAYTIME	RAIN
HEAVY RAIN DAYTIME	RAIN
HEAVY SNOWFALL DAYTIME	HEAVY SNOW
THUNDERSTORM DAYTIME	THUNDER
DENSE FOG NIGHTTIME	DENSE FOG
HEAVY RAIN NIGHTTIME	HEAVY RAIN
HEAVY RAIN NIGHTTIME	HEAVY RAIN
HEAVY SNOWFALL NIGHT	HEAVY SNOW
THUNDERSTORM NIGHTTIME	THUNDER
FOEHN	FOEHN
BISE	BISE
MISTRAL	MISTRAL
SCIROCCO	SCIROCCO
TRAMONTANA	TRAMONTANA

GERMAN	GERMAN SHORT FORM IN INFORMATION WINDOW
SCHWERES WETTER	UNWETTER
SCHWERES WETTER TAG	UNWETTER T
SCHWERES WETTER NACHT	UNWETTER N
STURM	STURM
STURM AM TAGE	STURM.TAG
STURM NACHTS	STURM.NACHT
AM TAG BÖIGER WIND	WINDBÖE.T
NACHTS BÖIGER WIND	WINDBÖE.N
EISREGEN VORMITTAGS	EISREGEN
EISREGEN NACHMITTAGS	EISREGEN
EISREGEN NACHTS	EISREGEN
FEINSTAUB PM10	FEINSTAUB
OZON	OZON
RADIOAKTIVE STRAHLUNG	RA. STRAHL.
HOCHWASSER	HOCHWASSER
DICHTER NEBEL	NEBEL
STARKE REGENFÄLLE	ST. REGEN
STARKE NIEDERSCHLÄGE	ST. NIEDERS.
STARKE SCHNEEFÄLLE	ST. SCHNEE
STARKE GEWITTER	ST.GEWITTER
STARKE UV-STRAHLUNG	ST. UV-STR.
TAGS DICHTER NEBEL	NEBEL_T
TAGS STARKER REGEN	REGEN_T
TAGS STARKER NIEDERSCHL.	NIEDERS_T
TAGS STARKE SCHNEEFÄLLE	ST.SCHNEE_T
TAGS STARKE GEWITTER	GEWITTER_T
NACHTS DICHTER NEBEL	NEBEL_N
NACHTS STARKER REGEN	REGEN_N
NACHTS STARK.NIEDERSCHL.	NIEDERS_N
NACHTS STARK.SCHNEEFALL	ST.SCHNEE_N
NACHTS STARKE GEWITTER	GEWITTER_N
FÖHN	FÖHN
BISE	BISE
MISTRAL	MISTRAL
SCIROCCO	SCIROCCO
TRAMONTANA	TRAMONTANA

DUTCH (NIEDERLANDISCH)	DUTCH SHORT FORM IN INFORMATION WINDOW
ZWAAR WEER	ZWAAR WEER
ZWAAR WEER OVERDAG	ZW WEER_D
ZWAAR WEER'S NACHTS	ZW WEER_N
STORM	STORM
STORM OVERDAG	STORM_D
STORM'S NACHTS	STORM_N
WINDSTOTEN OVERDAG	WINDST_D
WINDSTOTEN'S NACHTS	WINDST_N
IJZEL IN DE OCHTEND	IJZEL_O
IJZEL IN DE MIDDAG	IJZEL_M
IJZEL IN DE NACHT	IJZEL_N
FIJNE DEELTJES PM10	FIJNSTOF
OZON	OZON
RADIOACTIEVE STRALING	RAD ACT ST
HOOGWATER	HOOGWATER
DICHTE MIST	D MIST
ZWARE REGEN	ZW REGEN
ZWARE NEERSLAG	ZW REGEN
ZWARE SNEEUWVAL	ZW SNEEUW
ZWARE ONWEERSBUIEN	ZW ONWEER
STERKE UV STRALING	ST UV STR
DICHTE MIST OVERDAG	D MIST_O
ZWARE REGEN OVERDAG	ZW REGEN_O
ZWARE NEERSLAG OVERDAG	ZW REGEN_O
ZWARE SNEEUWVAL OVERDAG	ZW SNEEUW
ZWAAR ONWEER OVERDAG	ZW ONWEER
DICHTE MIST'S NACHTS	D MIST_N
ZWARE REGEN'S NACHTS	ZW REGEN_N
ZWARE NEERSLAG'S NACHTS	ZW REGEN_N
ZWARE SNEEUW‘S NACHTS	ZW SNEEUW
ZWAAR ONWEER'S NACHTS	ZW ONWEER
FÖHN	FÖHN
BISE	BISE
MISTRAL	MISTRAL
SCIROCCO	SCIROCCO
TRAMONTANA	TRAMONTANA

SPANISH	SPANISH SHORT FORM IN INFORMATION WINDOW
AVISO METEOROLOGICO	AVIS_METEO
AVISO METEOROLOGICO DIA	AVIS.MET_D
AVISO METEOROLOG. NOCHE	AVIS.MET_N
TEMPORAL	TEMPORAL
TEMPORAL DIA	TEMPORAL_D
TEMPORAL POR LA NOCHE	TEMPORAL_N
RACHAS FUERTES DIA	RACHAS_F_D
RACHAS FUERTES NOCHE	RACHAS_F_N
LLUVIA HELADA MANANA	LLUV.HEL_M
LLUVIA HELADA TARDE	LLUV.HEL_T
LLUVIA HELADA NOCHE	LLUV.HEL_N
POLVO FINO PM10	POLVO_FINO
OZONO	OZONO
RADIACION RADIOACTIVA	RADIA.RADIO
INUNDACION	INUNDACION
NIEBLA DENSA	NIEB_DENSA
LLUVIAS FUERTES	LLUVIAS_F
PRECIPITACIONES FUERTES	PRECIPIT.FU
NEVADAS FUERTES	NEVAD.FUER
TORMENTAS FUERTES	TORMENT_FU
RADIACION UV FUERTE	RAD_UV-FUE
NIEBLA DENSA DIA	NIEB.DEN_D
LLUVIA FUERTE DIA	LLUV.FUE_D
PRECIPITAC. FUERTES DIA	PRECIP.F_D
NEVADAS FUERTES DIA	NEV.FUER_D
TORMENTA FUERTE DIA	TORMEN.F_D
NIEBLA DENSA NOCHE	NIEB.DEN_N
LLUVIA FUERTE NOCHE	LLUV.FUE_N
PRECIPIT. FUERTES NOCHE	PRECIP.F_N
NEVADA FUERTE NOCHE	NEV.FUER_N
TORMENTA FUERTE NOCHE	TORMEN.F_N
FOEHN	FOEHN
BISE	BISE
MISTRAL	MISTRAL
SCIROCCO	SCIROCCO
TRAMONTANA	TRAMONTANA

ITALIAN	ITALIAN SHORT FORM IN INFORMATION WINDOW
CONDIZIONI DIFFICILI	COND ESTR
CONDIZIONI DIFFICILI GIORNO	COND EST G
CONDIZIONI DIFFIC.NOTTE	COND EST N
TEMPESTA	TEMPESTA
TEMPESTA DIURNA	TPS DIURNA
TEMPESTA NOTT.	TPS NOTT.
FORTI RAFFICHE DIURNE	RAFF.DIURN
FORTI RAFFICHE NOTT.	RAFF.NOTT
PIOGGIA GELIDA MATT.	NEVISCHIO
PIOGGIA GELIDA POMERID.	NEVISCHIO
PIOGGIA GELIDA NOTT.	NEVISCHIO
POLVERI FINI RESPIRAB.	POLV.FINI
OZONO	OZONO
RADIOATTIVITA	RADIAZIONI
INONDAZIONE	INONDAZ.
FITTA NEBBIA	NEBBIA
FORTE PIOGGIA	PIOGGIA
FORTI PRECIPIT.	PRECIP INT
FORTE NEVICATA	NEVICATA
FORTE TEMPORALE	TEMPORALE
FORTI IRRADIAZONI UV	HIGH UV
FITTA NEBBIA DIURNA	NEBBIA DR
FORTE PIOGGIA DIURNA	PIOGGIA DR
FORTI PRECIPITAZ. DIUR.	PRECIP INT
TEMPESTA DI NEVE DIURNA	TPS NEVE D
FORTE TEMPORALE DIURNO	TPR DIURNO
FITTA NEBBIA NOTT.	NEBBIA NOT
FORTE PIOGGIA NOTT.	PIOGGIA N
FORTI PRECIPITAZ. NOTT.	TPR NOTT
FORTE NEVICATA NOTT.	NEVE INT
FORTE TEMPORALE NOTT.	TPR NOTT
FOEHN	FOEHN
BISE	BISE
MISTRAL	MAESTRALE
SCIROCCO	SCIROCCO
TRAMONTANA	TRAMONTANA

FRENCH	FRENCH SHORT FORM IN INFORMATION WINDOW	SWEDISH SHORT FORM IN INFORMATION WINDOW
TEMPS LOURD	TEMPS.LOURD	KRIT. VÄDER
TEMPS LOURD JOUR	TEMPS.LOURD	KRI. VÄD. D
TEMPS LOURD NUIT	TEMPS.LOURD	KRI. VÄD. N
TEMPETE	TEMPETE	STORM
TEMPETE JOUR	TEMPETE	STORM D
TEMPETE NUIT	TEMPETE	STORM N
RAFALES VIOLENTES JOUR	VIOLENTES	VINDBYAR D
RAFALES VIOLENTES NUIT	VIOLENTES	VINDBYAR N
PLUIE VERGLACANTE MATIN	PLUIE_VER	IS/REGN FM
PLUIE VERGLA.APRES-MIDI	PLUIE_VER	IS/REGN EM
PLUIE VERGLACANTE NUIT	PLUIE_VER	IS/REGN N
POUSSIERE FINE PM10	FINE_PM10	STOFT PM10
OZONE	OZONE	OZON
IRRADIATION	IRRATE	STRALNING
INONDATION	INONDATION	FLOD
BROUILLARD EPAIS	BROUILLARD	TÄTDIMMA
FORTE PLUIE	FORTE.PLUIE	KRAFT.REGN
FORTE PLUIE	FORTE.PLUIE	KRAFT.REGN
FORTE CHUTE NEIGE	FORTE.NEIGE	KR. SNÖFALL
ORAGE VIOLENT	ORAGE VOIL.	KRAFT.ASKV
FORTE IRRADIATION UV	FORTE UV	HÖG UV STR
BROUILLARD EPAIS JOUR	BROUILL_J	TÄTDIMMA D
FORTE PLUIE JOUR	FORTE.PLU_J	KR.REGN D
FORTE PRECIPIT. JOUR	FORTE.PRE_J	KR.REGN D
FORTE CHUTE NEIGE JOUR	FORTE.NEIGE	KR. SNÖ D
ORAGE VIOLENT JOUR	ORAGE	ASKVÄDER
BROUILLARD EPAIS NUIT	BROUILL_N	TÄTDIMMA N
FORTE PLUIE NUIT	FORTE.PLU_N	KR. REGN N
FORTE PLUIE NUIT	FORTE.PLU_N	KR. REGN N
FORTE CHUTE NEIGE NUIT	FORTE.NEI_N	KR. SNÖ N
ORAGE VIOLENT NUIT	ORAGE_N	ASKVÄDER
FOEHN	FOEHN	FÖHN
BISE	BISE	BISE
MISTRAL	MISTRAL	MISTRAL
SCIROCCO	SCIROCCO	SCIROCCO
TRAMONTAGNE	TRAMONTAGN	TRAMONTANA

SETUP MANUL IN 10 LETTERS SHORT FORM IN DIFFERENT LANGUAGES

ENGLISH	ENGLISH SHORT FORM IN INFORMATION WINDOW
SEARCH SIGNAL	SEARCH SIG.
SELECT CITY	CITY
SELECT COUNTRY	COUNTRY
TIME ZONE	ZONE
HOURS	HR
RECEPTION TEST	SCAN
CONTRAST.	CONTRAST.
MEMORY FULL	MEM.FULL
EXIT SETMODE	EXIT

GERMAN	GERMAN SHORT FORM IN INFORMATION WINDOW
SUCHE SIGNAL	SUCHE SIG.
STADT EINSTELLEN	STADT.EINST.
LAND EINSTELLEN	LAND EINST.
ZEITZONE	ZONE
STUNDEN	H
EMPFANGSTEST	EMPF. TEST
KONTRAST.	KONTRAST.
SPEICHER VOLL	SPEICHER_V
EINSTELLUNG VORGENOMMEN	EINST. VORG.

DUTCH (NIEDERLANDISCH)	DUTCH SHORT FORM IN INFORMATION WINDOW
SIGNAAL ZOEKEN	SIGN ZKN
STAD INSTELLEN	STAD INST
LAND INSTELLEN	LAND INST
TIJD ZONE	ZONE
UREN	HR
SIGNAAL TEST	SIGN TEST
DISPLAY CONTRAST.	CONTRAST.
GEHEUGEN VOL	GEH VOL
INSTELLEN VERLATEN	INST VERL

SPANISH	SPANISH SHORT FORM IN INFORMATION WINDOW
BUSCAR UNA SENAL	BUSCAR.SEN
SELECCIONAR LA CIUDAD	SELEC.CIUD
SELECCIONAR EL PAIS	SELEC.PAIS
ZONA HORARIA	ZONA
HORAS	HR
PRUEBA DE RECEPCION	PRUEB.REC
CONTRAST.	CONTRAST.
MEMORIA POR COMPLETO	MEMO_COMP
AJUSTE REALIZADO	AJUST.REAL

ITALIAN	ITALIAN SHORT FORM IN INFORMATION WINDOW
RICERCA SEGNALE	SEARCH
SCELTA DELLA CITTA	S.CITTA'
SCELTA DEL PAESE	S.PAESE
ZONA ORARIA	ZONA
ORE	HR
PROVA RICEZIONE	PROVA RX.
CONTRASTO	CONTRST.
MEMORIA PIENA	MEM PIENA
REGOLAZIONE FATTA	SALVATO

FRENCH	FRENCH SHORT FORM IN INFORMATION WINDOW	SWEDISH SHORT FORM IN INFORMATION WINDOW
CHERCHE SIG	CHERCHE.SIG	SÖK SIGNAL
CHOIX DE LA VILLE	CHOIX_VILL	VÄLJ STAD
CHOIX DU PAYS	CHOIX_PAYS	VÄLJ LAND
FUSEAU HORAIRE	FUSEAU	ZONE
HRS	H	HR
TEST DE RECEPTION	TEST_REC	MOTT. TEST
CONTRASTE.	CONTRASTE.	KONTRAST.
MEMOIRE PLEINE	MEM PLEIN	MEM. FULLT
REGLAGE EFFECTUE	REGLAGE.EFF	EXIT SETM.

Section 2

Setting Up
Wireless Indoor/Outdoor measuring device
For
Wind, Rain,Thermo-hygrometer
and the atmosphere pressure

2.0 INTRODUCTION

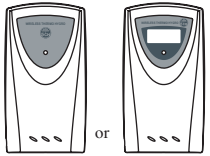
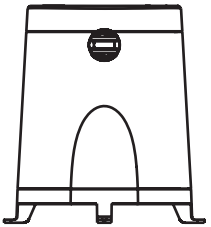
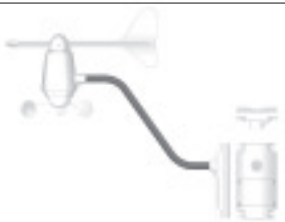
MAIN UNIT

It measures indoor temperature and humidity, and displays weather data collected by the remote weather sensors. It also provides indication of the indoor/outdoor temperature, pressure and humidity trends, and moon phase.

The main console unit stores around 200 weather records without a computer connection. When linked to a computer using the USB cable and software provided, the records from wireless measuring devices can be displayed and saved onto the computer.

WIRELESS OUTDOOR MEASURING DEVICES

The remote weather sensors include a thermo-hygrometer, anemometer (wind sensor) and rain sensor. All data collected by the sensors is transmitted to the main unit by wireless RF. The weather station supports a maximum of 5 thermo-hygrometers, allowing 5 channels of temperature/humidity display. Contents of the Wireless Outdoor Measuring Devices are listed as below.

	Hardware Components	**Fittings**
	• Thermo-Hygro Sensor	
	Rain Sensor: • Funnel shaped Lid with Battery Hatch • Sensor Base • Bucket See-saw Mechanism • Protective Screen	4 screws for securing unit to ground
	Anemometer (Wind Sensor): • Wind Cups • Wind Vane • Anemometer arm • Anemometer base	4 screws for securing unit to vertical surface
	Computer Software	2m (6ft) USB cable

2.1 FEATURES OF WIRELESS IN/OUTDOOR MEASURING DEVICES

PRESSURE
- Current or historical pressure (mBar/ hPa, mmHg or inHg)
- Altitude or sea level pressure adjustment for atmospheric pressure compensation
- Pressure trend indication
- Sea-level pressure history for the last 24 days
- Sea-level pressure history bar chart

MOON PHASE
- 12 steps of moon symbols
- Scans moon phase for year 2000 to 2099
- Moon phase history for the last or future 39 days

REMOTE TEMPERATE AND RELATIVE HUMIDITY, WITH TREND INDICATION
- Indoor and outdoor temperature and relative humidity display (°C or °F)
- Temperature and relative humidity trend indication
- Dew point display
- Max and Min memory for temperature and relative humidity

COMFORT LEVEL INDICATOR
- Analyzes current environmental conditions (Comfort, Wet and Dry)

RAINFALL MEASUREMENT
- Records rainfall amount for the last hour, last 24 hours, last day, last week and last month (inch or mm).
- Daily rainfall alert if rainfall for the current day exceed pre-specified amount.

WIND
- Temperature at place of anemometer.
- Temperature adjusted to wind chill factor. (°C or °F)
- Wind direction compass display. Wind direction angles available as compass points or bearings.
- Average wind speed and gust speed (mph, m/s, knots, and km/h)
- Daily Maximum wind speed and gust speed memory.
- Wind speed alert for average wind speed and wind gust speed.

MEMORY FUNCTIONS
- Stores 200 weather records (without a computer connection) with memory saving intervals (1 hr default).
- USB port for connection to computer to allow upload of weather records.

2.2 INSTALLING YOUR WEATHER STATION

SETTING UP THE REMOTE WEATHER SENSORS

Before starting up the main console unit, setup all the remote sensors first.

When placing the sensors, make sure that they are within receiving range of the console unit. Ideally they should be within the line of sight of the Main Unit. Transmission range may be affected by trees, metal structures and electronic appliances. Test reception before permanently mounting your weather station.

Also make sure that the sensors are easily accessible for cleaning and maintenance.
The remote sensors should be cleaned on a weekly basis, since dirt and debris will affect sensor accuracy.

2.2.1 SETTING UP THE THERMO-HYGRO SENSOR(S)

1. Open the latch at the base of the thermo-hygro sensor.
2. Set the channel with a slide switch.
3. Insert 2 x UM-3 or “AA” size 1.5V batteries.
4. Use a pin to press the “RESET” key which is in the battery compartment of thermo-hygro sensors.
5. Replace the latch and mount unit at desired location.

PLACEMENT TIPS:

- The thermo-hygro sensor should be in an area with free air circulation and sheltered from direct sunlight and other extreme weather conditions. Place the unit in a shaded area, such as under a roof.
- Use the wall mount and fittings provided if mounting the unit on a vertical surface.
- Avoid placing the sensor near sources of heat such as chimneys.
- Avoid any areas which collect and radiate heat in the sun, such as metal, brick or concrete structures, paving, patios and decks.
- Ideally, place the sensor above natural surfaces such as a grassy lawn.
- The international standard height for measurements of air temperature is at 1.25m (4 ft) above ground level.

2.2.2 SETTING UP THE RAIN SENSOR

1. Unlock the funnel-shaped top of the rain sensor by turning both knobs on the sides of the rain sensor in an anti-clockwise direction.
2. Lift the top off the base and insert 2 x UM-3 or "AA" size 1.5V batteries into the battery holder.
3. Replace the lid and secure into place by turning the knobs clockwise.
4. Place the rain sensor in a location such that precipitation can fall directly into the sensor, ideally 2-3 ft above the ground.
   It may be secured into place by using the four screws provided.
5. The sensor must be accurately level for optimum performance. To check if the sensor is level, remove the lid and check if the ball bearing inside is at the midpoint of the leveler. Additionally, a bubble level or carpenter's level may be used.
6. Attach the protective screen onto the top of the lid. The screen will prevent any debris entering the sensor.

PLACEMENT TIPS:

- The rain sensor should be placed in an open area away from walls, fences, trees and other coverings which may either reduce the amount of rainfall into the sensor, deflect the entry of wind-blown rain, or create extra precipitation runoff. Trees and rooftops may also be sources of pollen and debris.
- To avoid rain shadow effects, place the sensor at a horizontal distance corresponding to two to four times the height of any nearby obstruction.
- It is important that rain excess can flow freely away from the sensor. Make sure that water does not collect at the base of the unit.
- The rainfall measurement mechanism utilizes a magnet, hence do not place any magnetic objects around the proximity of the sensor.

2.2.3 SETTING UP THE ANEMOMETER (WIND SENSOR)

1. Assemble the wind cups to the anemometer arm.
2. Attach the assembled anemometer to the base.
3. Insert 2 x UM-3 or "AA" size 1.5V batteries into the battery holder in the base.
4. Mount the anemometer onto a vertical surface, using the fittings provided.
5. To allow the main console unit to find the direction which the wind vane is oriented, the following procedures are required:
   i. Insert the batteries
   ii. Point the wind vane towards the north. Use a compass or map if necessary.
   iii. Use a pin to press the "SET" key which is in the battery compartment of the wind sensor.

Note: Above procedure must be repeated for changing battery.
The "SET" will toggle the direction between two mode:
   1. Let the wind direction as manufacturer design. It will be as a default setting after
   2. Set the current direction as NORTH.

PLACEMENT TIPS:

- Check that wind can travel freely around the anemometer and is not distorted by nearby buildings, trees or other structures.
- For better results, place the anemometer at least 3m above local structures and obstacles. The ground creates a frictional effect to wind flow and will attenuate readings.
- Aim for maximum exposure of the anemometer to the commonest wind directions in your area.
- The official mounting location for anemometers is 10m (33 ft) above ground level in a clear unobstructed location.

2.2.4 SETTING UP THE MAIN UNIT

You are highly recommended to connect the AC/DC adaptor. For the feature of the automatic backlight control function, the AC/DC adaptor must be used.

PLACEMENT TIPS:

Make sure that the Main Unit is within receiving range of all remote sensors. Ideally sensors should be within the line of sight of the console unit. Transmission range may be affected by trees, metal structures and electronic appliances. Test reception before permanently mounting your weather station.

The Main Unit measures indoor temperature, humidity, pressure and receives signals from all remote sensors and radio-clock broadcasts. Avoid placing the console unit in the following areas:

- Direct sunlight and surfaces which radiate and emit heat.
- Near heating and ventilation devices, such as heating ducts or air conditioners.
- Areas with interference from wireless devices (such as cordless phones, radio headsets, baby listening devices) and electronic appliances.

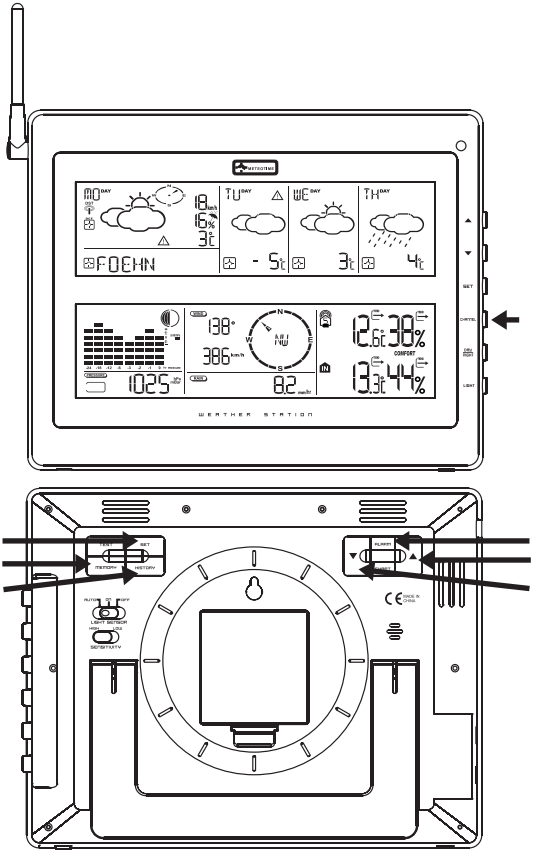
STARTING UP THE MAIN UNIT

Once the console unit is properly powered, the display will start showing some data and weather parameters. Wait for a few minutes for the console to finish self-calibration and for the sensor readings to show up.

If "---" is still displayed for the sensor reading(s), check the wireless transmission path and the batteries for the corresponding sensor.

2.3 BUTTONS AND CONTROLS

There are total 7 buttons at the Right side of main Unit for setting up the Wireless In/Outdoor Measuring Devices for Wind, Rain, Thermohygrometer, Pressure and Moon Phase, namely:



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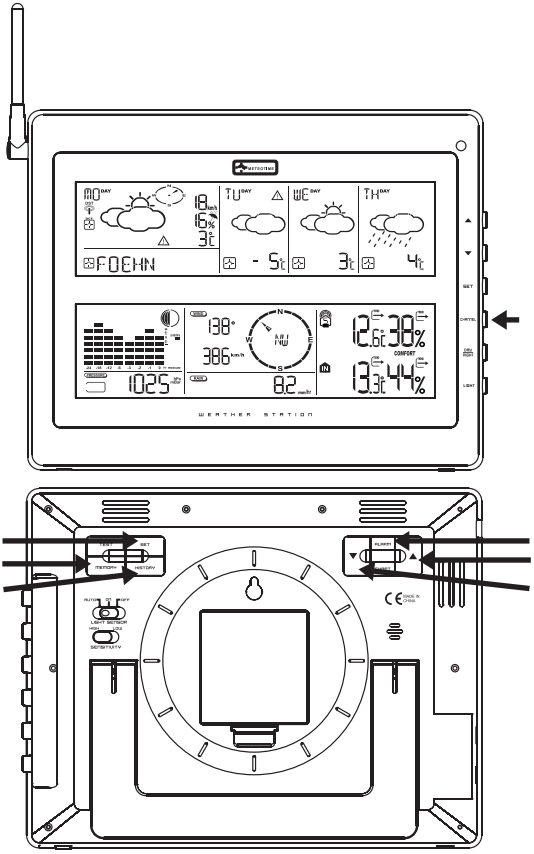


2.4.3 RAIN MODE RAIN

- Precipitation amount for last hour, last 24 hour, yesterday, last week and last month
- Rainfall alert

RAIN

2.4.4 WIND MODE WIND

- Wind Chill
- Temperature at place of anemometer
- Wind direction
- Wind speed
- Wind gust
- Alert for wind speed and wind gust speed

CUSTOMIZING YOUR WEATHER STATION

To fully customize the weather station to your local settings and personal preferences, the following settings are required. Please refer to the appropriate sections for detailed instructions as below.

REQUIRED:

- Setting Pressure Parameters during Initial Start-Up (Pressure Mode)

OPTIONAL:

- Setting up the Temperature Alerts (Temperature and Humidity Mode)
- Setting up the Daily Rainfall Alerts (Rain Mode)
- Setting up the Wind Alerts (Winds Mode)

2.5 SETTING PRESSURE PARAMETERS DURING INITIAL START-UP

This part of the display indicates the current pressure, sea level pressure, and moon phase. A number of historical statistics can also be viewed, such as the sea-level pressure values for the last 24 hours, moon phase for the previous and next 39 days, as well as a pressure/ temperature/ humidity history bar-chart.
Pressure values may be displayed inHg, hPa/mBar or mmHg, and altitude values may be displayed in meters or feet.

ACCESSING PRESSURE AND WEATHER FORECAST MODE

From the main console unit: [▲] or [▼]until the weather forecast icon PRESSURE starts flashing.

SETTING PRESSURE PARAMETERS DURING INITIAL START-UP

During the initial start-up of the Main Unit, the pressure settings should be configured in following steps.

1. Choose Pressure Units:
   The unit icon “inHg” or “mmHg” or “hPa/mBar” should be flashing. [▲] or [▼] to select pressure unit as inHg, hPa/mBar or mmHg
   Press [SET] to confirm your selection.
2. Choose Altitude Units:
   Press [▲] or [▼] to select altitude unit as feet or meters.
   Press [SET] to confirm your selection.
3. Set Altitude:
   [▲] or [▼]to adjust value. Press and hold either button for fast advance.
   Press [SET] to confirm your selection.
4. Upon completion the display will be returned to Pressure and Weather Forecast Mode.

Note: After initial start-up the altitude cannot be adjusted immediately

VIEWING PRESSURE AND ALTITUDE DATA

In Pressure Mode, each press of [SET] rotates display between:

- Sea level pressure
- Local pressure
- Local altitude

SETTING THE SEA LEVEL PRESSURE

1. In Pressure Mode, press [SET] until the sea level pressure is displayed.
2. Press and hold [SET]. The Sea Level Pressure display should be flashing.
3. Set Sea Level Pressure:
   [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press [**SET**] to confirm your selection.
4. Upon completion the display will be returned to Pressure Mode.

SETTING THE PRESSURE AND ALTITUDE UNITS

1. Set Local Pressure Units:
   press [SET] until local pressure is displayed
   Press and hold [MEMORY]
   [▲] or [▼] to adjust value.
   Press [MEMORY] to confirm your selection.
1. Set Altitude Units:
   press [SET] until Altitude is displayed
   Press and hold [MEMORY]
   [▲] or [▼] to adjust value.
   Press [MEMORY] to confirm your selection.
2. Set Sea-Level Pressure Units:
   press [SET] until Sea-Level pressure is displayed
   Press and hold [MEMORY]
   [▲] or [▼] to adjust value.
   Press [MEMORY] to confirm your selection.

VIEWING THE SEA LEVEL PRESSURE HISTORY

1. In all modes, pressing [HISTORY] will toggle the sea level pressure display.
2. When sea level pressure is displayed, press [HISTORY] repeatedly to view sea level pressure data for each of the last 24 hours.
3. If no buttons are pressed for 5s, the display automatically show the current pressure.

VIEWING THE PRESSURE/ TEMPERATURE/ HUMIDITY BAR-CHARTS

The bar-chart on the display can be configured to display the history data for sea-level pressure, temperature or humidity for channel 1.

In Pressure Mode, press and hold [ALARM/CHART] to toggle the bar-chart between:

- Sea-level pressure (“PRESSURE” should be displayed)
- Temperature (Thermometer icon and “CH1” should be displayed)
- Humidity (RH icon and “CH1” should be displayed)

VIEWING MOON PHASE HISTORY AND FORECAST

1. In Pressure Mode, press [MEMORY].
2. "+ 0 days" should be flashing.
3. View Moon Phase History / Forecast:
   [▲] or [▼] to choose number of days forward (+ days) or backward (- days) from current date. Press and hold either button for fast advance.
   The corresponding moon phase will be shown.
4. To exit, press [MEMORY].
   Otherwise, if no buttons are pressed for 5s the display automatically returns to Pressure and Weather Forecast Mode.

UNDERSTANDING THE MOON PHASE DIAGRAM

FULL LAST NEW FIRST

2.6 INDOOR AND OUTDOOR TEMPERATURE AND HUMIDITY

The weather station supports up to 5 remote thermo-hygrometer sensors, each sensor corresponding to a separate channel for the temperature and relative humidity display. The temperature may be shown in degrees Celsius ºC or degrees Fahrenheit ºF. The trend (rising, steady or falling) of all values is also indicated on the display.
The Main Unit uses the indoor temperature and humidity data to compute a comfort level rating of Wet, Comfort or Dry.
A temperature alert function is available for each channel. It can be programmed to sound if the channel temperature exceeds or falls below the pre-configured upper and lower limits.

Note: The temperature alerts have a 0.5 ºC hysteresis to prevent the alerts from sounding constantly due to small fluctuations near the alert value. This means that after the temperature reaches the alert value, it will have to fall below the alert value plus the hysteresis to deactivate the alert.

ACCESSING TEMPERATURE AND HUMIDITY FROM DIFFERENT WIRELESS OUTDOOR THERMOHYGROMETER

From the Main Unit: Press [▲] or [▼] until the IN icon on the upper right of the display starts flashing.

VIEWING TEMPERATURE AND HUMIDITY DISPLAY FOR EACH CHANNEL

For Static Display:

In Temperature and Humidity Mode, each press of [CHANNEL] rotates display between different channels.

For Cycling Display:

To enable automatic rotating between different channel displays, press and hold [CHANNEL], until the icon is displayed. Each valid channel will now be alternately displayed for 5s.

ROTATING BETWEEN TEMPERATURE AND DEW POINT DISPLAY

Each press of [SET] rotates temperature display between:

- Temperature and Relative Humidity
- Dew Point Temperature and Relative Humidity

SETTING UNITS FOR TEMPERATURE DISPLAY (ºC OR ºF)

Press and hold [SET] to convert units between degrees Celsius ºC and degrees Fahrenheit ºF.

ACTIVATING/DEACTIVATING THE TEMPERATURE ALERTS

1. In Temperature and Humidity Mode, each press of [ALARM/CHART] rotates channel temperature display between:
   - Current Temperature for corresponding channel
   - Upper Temperature Alert (displays OFF if deactivated): icon displayed
   - Lower Temperature Alert (displays OFF if deactivated): icon displayed
2. When the above alerts are displayed, Pressing [▲] or [▼] will activate/deactivate the corresponding alert.

SETTING UP THE TEMPERATURE ALERTS

1. In Temperature and Humidity Mode, press [ALARM/CHART] to select alarm which you wish to configure.
2. Press and hold [ALARM/CHART] until channel temperature, and [▲] or [▼] icon starts flashing in the display.
3. Set Value for Temperature Alert:
   Press [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press [ALARM/CHART] to confirm your selection.
4. Upon completion the display will be returned to the temperature alert selection screen.

DISABLING WHEN TEMPERATURE ALARMS ARE ACTIVATED
To Disable Temperature Alarm(s):
Press [ALARM/CHART] to disable the alarm (s).

VIEWING THE MAX/MIN CHANNEL TEMPERATURE AND HUMIDITY
Each press of [MEMORY] rotates channel temperature and humidity display between:
- Current temperature and humidity at remote sensor
- Minimum temperature and humidity at remote sensor
- Maximum temperature and humidity at remote sensor

RESETTING THE MAX/MIN CHANNEL TEMPERATURE AND HUMIDITY MEMORY
Press and hold [MEMORY] to clear memory for all channels.

REMOTE SENSOR STATUS
The wave icon above the current channel display shows the connection status of the corresponding remote sensor:

ICON	STATUS
	Searching for remote sensor signals
	Corresponding remote sensor successfully linked
•	No signals received for more than 15 minutes

ACTIVATING MAIN CONSOLE UNIT TO SEARCH FOR ALL REMOTE SENSOR SIGNALS
The main console unit may be manually activated to search for signals from all remote sensors.
Press and hold [▼] to enforce a search.

2.7 WIRELESS OUTDOOR RAIN GAUGE

The Main Unit records the total amount of rainfall for the last hour, last 24 hours, yesterday, last week and last month. The rainfall may be displayed in mm or inches.
A daily rainfall alert function is available which can be programmed to sound if the daily rainfall exceeds a pre-configured limit.

ACCESSING RAIN GAUGE READING

From the main console unit: Press [▲] or [▼] until the RAIN icon on the display starts flashing.

VIEWING RAIN STATISTICS

Each press of [SET] or [MEMORY] rotates display between different rain statistics:

- Last hour
- Last 24 hour
- Yesterday
- Last week
- Last month

Tip: For an estimation of the rain rate, the Last Hour rainfall value can be understood as "inch/hr" or "mm/hr".

RESETTING THE RAINFALL STATISTICS MEMORY

Press and hold [MEMORY] to reset all rainfall statistics.

SETTING UNITS FOR RAIN DISPLAY (INCH OR MM)

Press and hold [SET] to convert units between mm and inches.

ACTIVATING/DEACTIVATING THE DAILY RAINFALL ALERT

1. Each press of [ALARM/CHART] rotates display between the current rainfall statistics and the daily rainfall alert ("ALARM HI" will be displayed).
   If the alert is deactivated, "OFF" will be shown, otherwise the rainfall alert value is shown.
2. When the rainfall alert is displayed, pressing [▲] or [▼] will activate/deactivate it.

SETTING UP THE DAILY RAINFALL ALERT

1. Press [ALARM/CHART] to display rainfall alert.
2. Press and hold [ALARM/CHART] until rainfall alert and "ALARM HI" starts flashing in the display.
3. Set Value for Rainfall Alert:
   Press [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press [ALARM/CHART] to confirm your selection.
4. Upon completion the display will be returned to the rainfall alert display.

DISABLING WHEN DAILY RAINFALL ALERT IS ACTIVATED

To Disable Rainfall Alert:
Press [ALARM/CHART] to disable the alert.

2.8 WIRELESS OUTDOOR ANEMOMETER (WIND SENSOR)

The wind direction is shown by an animated compass display. Its angle can be displayed as compass points (i.e. NW) or in bearings from the north (i.e. 22.5°).
The upper left of the wind display can be set to indicate the temperature at the anemometer or the temperature adjusted with a wind chill factor.
The lower left of the wind display indicates the average wind speed for the last 10 minutes, as well as gust, wind speed alert and gust alert information. It can also show records of the maximum values of wind speed and gust attained for the current day.

The wind speed and gust alert functions can be programmed to sound if the wind speed or gust exceeds a pre-configured limit. The wind speed may be displayed in km/h, mph, m/s or knots.

Note: The wind speed alert has a 5 mph hysteresis and the wind gust speed alert has a 7 mph hysteresis. The hysteresis is to prevent the alerts from sounding constantly due to small fluctuations near the alert value. This means that after the wind speed reaches the alert value, it will have to fall below the alert value plus the hysteresis to deactivate the alert.

ACCESSING WIND MODE
Press [▲] or [▼] until the WIND icon on the display starts flashing.

CONFIGURING WIND DISPLAY
Each press of [SET] rotates display between:
- Temperature with wind chill, wind direction in bearings
- Temperature with wind chill, wind direction in compass points
- Temperature at anemometer, wind direction in compass points
- Temperature at anemometer, wind direction in bearings

SETTING UNITS FOR WIND SPEED DISPLAY (KM/H , MPH, M/S OR KNOTS)
Press and hold [SET] to convert wind speed units between km/h, mph, m/s or knots.

VIEWING WIND STATISTICS
Each press of [MEMORY] rotates wind speed display between:
- Current wind speed
- Daily maximum wind speed (“DAILY MAX” is displayed)
- Gust speed (“GUST” is displayed)
- Daily maximum gust speed (“GUST DAILY MAX” is displayed)

RESETTING THE WIND STATISTICS MEMORY
Press and hold [MEMORY] to reset all wind statistics.

ACTIVATING/DEACTIVATING WIND ALERTS

1. Each press of [ALARM/CHART] rotates wind speed display between:
   - Current wind speed
   - Wind speed alert (“ALARM HI” displayed)
   - Gust alert (“GUST ALARM HI” displayed)

   If the alert is deactivated, “OFF” will be shown, otherwise the alert value is shown.
2. When a wind alert is displayed, pressing [▲] or [▼] will activate/deactivate it.

SETTING UP THE WIND ALERTS

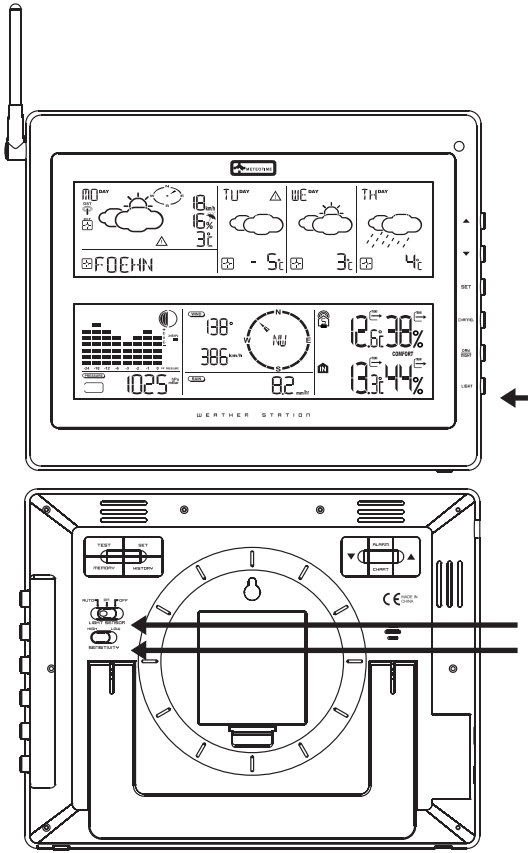
1. Press [**ALARM/CHART**] to select alarm which you wish to configure.
2. Press and hold [ALARM/CHART] until alert and corresponding icon starts flashing in the display.
3. Set Value for Alert:
   Press [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press [**ALARM/CHART**] to confirm your selection.
4. Upon completion the display will be returned to the wind alert selection screen.

DISABLING WHEN WIND ALERT IS ACTIVATED

To Disable Wind Alert:
Press [**ALARM/CHART**] to disable the alert.

3 LED BACKLIGHT OPTIONS

The backlight of the Main Unit can be turned permanently on/off or automatically toggled when environment lighting level is low. Use the light sensor switch at the back of the unit to select lighting preferences.



For the automatic backlight function, the sensitivity of the light sensor can be adjusted to high or low with the sensitivity switch also on the back of the Main Unit

Note: Main Unit must be powered with AC/DC adaptor for automatic backlight control function

4 LINKING THE WEATHER STATION TO A COMPUTER

Data collected by the weather station can be displayed and recorded on a computer by connecting the main console unit with the computer via USB.

Install the software provided with the weather according to the instructions on the software manual.
Connect the Main Unit with the computer using the USB cable provided.

5 MAINTENANCE

CHANGING BATTERIES

If the low battery indicators light up, replace the batteries for the corresponding unit immediately.

CHANGING BATTERIES FOR THE REMOTE SENSORS

1. Replace the batteries following the setup instructions for the corresponding sensor.
2. When the batteries are properly installed, the sensor will resume sending signals to the main console unit.
   To enforce a search immediately for all remote signals, press and hold [▼] located at the back of the Main Unit.

CLEANING

The Main Unit and outer casings for the remote sensors can be cleaned with a damp cloth.
Small parts can be cleaned with a cotton tip or pipe-cleaner.
Never use any abrasive cleaning agents and solvents. Do not immerse any units with electronic parts in water or under running water.

ANEMOMETER

- Check that the wind vane and wind cups can spin freely and are free from dirt, debris or spider webs.

RAIN GAUGE

Like all rain gauges, the rain sensor is prone to blockages due to its funnel shape. Checking and cleaning the rain sensor from time to time will maintain the accuracy of rain measurements.

- Detach the protective screen and lid. Remove any dirt, leaves or debris by cleaning the items with soapy water and a damp cloth. Clean small holes and parts with a cotton tips or pipe-cleaner.
- Look out for spiders or insects that might have crawled into the funnel.
- Also clean the swinging mechanism with a damp cloth.

TROUBLESHOOTING

“The display shows dashes “---” for weather parameter(s)”
The display will show “---” when the wireless link is lost with the remote sensor for the following periods:

Thermo-hygro Sensor	– 15 minutes
Anemometer (Wind Sensor)	– 15 minutes
Rain Sensor	– 30 minutes

Check or replace the batteries for the corresponding sensor. Then press and hold [▼] located at the back of the Main Unit to enforce a search for all remote signals.

If the above does not solve the problem, check the wireless transmission path from the corresponding sensor to the main console unit and change their locations if necessary. Although wireless signals can pass through solid objects and walls, the sensor should ideally be within the line of sight of the console unit.

The following may be the cause of reception problems:
- Distance between remote sensor and main console unit too long.
- Signal shielding materials such as metal surfaces, concrete walls or dense vegetation in the path of transmission.
- Interferences from wireless devices (such as cordless phones, radio headsets, baby listening devices) and electronic appliances.

PRECAUTIONS
This product is engineered to give you years of satisfactory service if you handle it carefully. Here are a few precautions:
1. Do not immerse the unit in water.
2. Do not clean the unit with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.
4. Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.
5. Only use fresh batteries as specified in the user's manual. Do not mix new and old batteries as the old ones may leak.
6. Always read the user's manual thoroughly before operating the unit.

CAUTION
- The content of this manual is subject to change without further notice.
- Due to printing limitation, the displays shown in this manual may differ from the actual display.
- The contents of this manual may not be reproduced without the permission of the manufacturer.

6 Technical Specifications

Receiver (Supply=6.0V, Ta=23°C)	and Sensor unit (Supply=3.0V, Ta=23°C)
RF Transmission Frequency	434 MHz
RF Reception Range	
Thermo-hygro Sensor	100 meters Maximum (Line of Sight)
Wind Sensor, Rain Sensor	30 meters Maximum (Line of Sight)
Barometric Pressure Range	500 hpa to 1100hpa (14.75 inHg to 32.44 inHg),
(At sea level)	(374.5 mmHg to 823.8 mmHg)
Altitude Compensation Range	-200m to +5000 m (-657 ft to 16404 ft)
Barometric Pressure resolution	0.1 hpa (0.003 inHg, 0.08 mmHg)
Barometric Pressure accuracy	+/- 5 hpa (0.015 inHg, 0.38 mmHg)
Outdoor Temperature Display Range	-40°C to 80°C (-40°F to 176°F)
Indoor Temperature Display Range	-9.9°C to 60°C (14.2°F to 140°F)
Operating Temperature	-5°C to 50°C (23°F to 122°F)
Storage Temperature	-20°C to 70°C(-4°F to 158°F)
Temperature accuracy	+/- 1°C or +/- 2°F
Temperature resolution	0.1°C or 0.2°F
Humidity Display Range	0% to 99%
Humidity accuracy	+/-5% (within 25% - 80%)
Humidity resolution	1%
Receiving Cycle	
Remote Thermo./Hygro.	around 47s
Rain gauge	183s
Wind sensor	33s
Wind Direction Range	16 positions
Wind Direction Accuracy	+/-11.25°
Wind Direction Resolution	22.5°
Wind Direction Starting Threshold	3mph
Wind Speed Range	0 to 199.9mph (199.9 Km/h, 173.7 Knots, 89.3 m/s)
Wind Speed Accuracy	+/- (2mph + 5%)
Wind Speed Starting Threshold	3mph
Wind/Gust Speed Disply Update Interval	33 seconds
Wind/Gust Sampling Interval	11 seconds
1h/24h/yesterday Rainfall Range	0.0 to 1999.9 mm (78.73 inch)
Last week/ last month Rainfall Range	0 to 19999 mm (787.3 inch)
Temperature Sensing Cycle (indoor)	10s
Humidity Sensing Cycle (indoor)	10s

Hardware Requirement for running PC software

WeatherView

Operating System: Windows 98 se or above
Memory: Ram 32 M byte or more
Hard disk: 20 M byte free space or more
Optical Device: 2x CD-Rom drive

Power

Main unit	: use 4 pcs UM-3 or ”AA” 1.5V battery
	: AC/DC adaptor 7.5V 200mA (centre +)
Remote Thermo.-Hygro unit	: use 2 pcs UM-3 or “AA” 1.5V battery
Remote Anemometer unit	: use 2 pcs UM-3 or “AA” 1.5V battery
Remote Rain gauge unit	: use 2 pcs UM-3 or “AA” 1.5V battery

EC-DECLARATION OF CONFORMITY
Product : Bresser 4Cast PC Wheaterstation

This product contains the approved transmitter and complies with the essential requirements of Article 3 of the R&TTE 1999/5/EC Directives, if used for its intended use and that the following standard(s) has/have been applied:

Efficient use of radio frequency spectrum
(Article 3.2 of the R&TTE Directive)
applied standard(s)
EN 300 220-3:2000

Electromagnetic compatibility
(Article 3.1.b of the R&TTE Directive)
applied standard(s)
EN 301 489-1,3:2000

Low voltage directive
applied standard(s)
EN 60950-1:2001

Additional information:
The product is therefore conform with the Low Voltage Directive 73/23/EC, the EMC Directive 89/336/EC and R&TTE Directive 1999/5/EC (appendix II) and carries the respective CE marking.

R&TTE Compliant Countries :
All EU countries, Switzerland (CH)
And Norway (N)

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