Meteotime Weather Station SENCOR SWS 100 with Wireless Thermo-Hygrometer

SWS 100
USER MANUAL

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 a 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.

This package comes with a main unit which is Meteotime Weather Station, and a remote outdoor Thermo-hygrometer sensor.

This Meteotime Weather Station has equipped the thermo-hygrometer sensor to measure the indoor temperature and humidity, and also has a wireless outdoor thermo-hygrometer sensor to measure the outdoor temperature and humidity.

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
- Single channel outdoor 433Mhz wireless Thermo-hygrometer
- Indoor Thermo-hygrometer
- Sunrise and sunset display
- Regional Day-time temperature and Night-time Temperature information. The night temperature for the 4th day will not be displayed.
- Critical Weather Alert
- Radio-controlled Clock and Calendar
- Time-zone setting
- Powered by Two AA batteries for main unit, and 2 AA batteries for the outdoor sensor

INTRODUCTION

The Meteotime Weather Station LCD display shows:

- Today Weather Information Window
- In/Outdoor Temperature & Humidity
- Tomorrow, One-day-after, and Two-day-after Weather Information
- Information Window which shows Time & Date, Sunrise & Sunset, Cities, and Critical Weather Information Description.
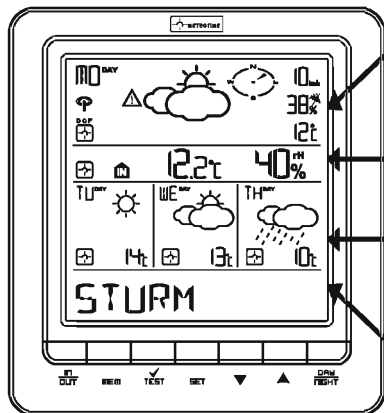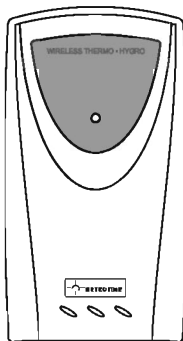
Today Weather Information including Wind Speed, Wind Direction, and the probability of Rain/Snow/Hail, Day & Night Temperature, Day & Night Weather Status.

In/Outdoor Temperature & Humidity.

Tomorrow, One-day-after, and Two-Day-after Weather Information including Day & Night Temperature, Day & Night Weather Status.

Information Window

Main Unit

Remote Thermo-Hygrometer

There are total 7 buttons on the Main Unit, 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

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

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

DAY / NIGHT
- Critical Weather Information ⬌ Time + Date ⬌ Day/Night Weather Status Change

MEM
- display the maximum and minimum measured Temperature in record
- Press and Hold for 3 second to clear all the Max. and Min. record

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
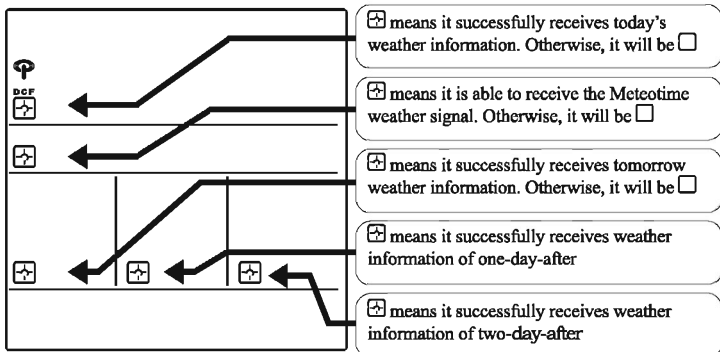- Edit your home town

IN / OUT
- Switch to read Indoor Thermo-hygrometer ⬌ Outdoor Thermo-hygrometer
- Press and Hold for 3 second to force the main unit to search for the outdoor sensor

GETTING START

- Insert 2 pcs AA batteries for remote sensor, and then insert 2 pcs AA batteries for the main unit.
- The main unit will automatically scan for the radio-controlled clock signal and the Meteotime Weather signal.
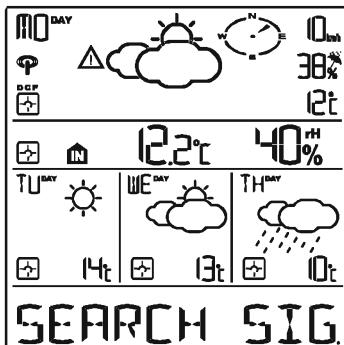
- The time and date will appear in a few minutes. Since there is a large amount of Weather information for all regions and days, the unit needs about 24 hours from the time of the initial setup to complete the reception of all data.
- After the time and the date signal is being received successfully, 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 ☐.

⊞ means it successfully receives today's weather information. Otherwise, it will be ☐

⊞ means it is able to receive the Meteotime weather signal. Otherwise, it will be ☐

⊞ means it successfully receives tomorrow weather information. Otherwise, it will be ☐

⊞ means it successfully receives weather information of one-day-after

⊞ means it successfully receives weather information of two-day-after

In the event the Meteotime icon change to eee, 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.

You are able to use the TEST function to look for a better location
• Press TEST button, SCAN is shown in the Information Window.
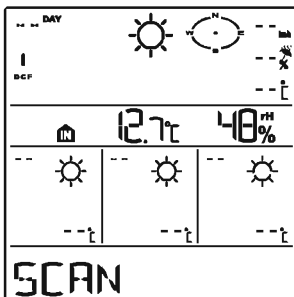
• Pick the unit to find a good location.
• ⊞ flashing: The test is running and the Meteotime signal reception is good.
  You are able to leave the device in this position.
  ☐ flashing: The test is running and the Meteotime signal reception is poor.
  You need to keep on looking for a better location.
• 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
• In the information window, it will show the selected City. For example, if you select the city FRANKFURTM. You are able to press [SET] to switch to Sunrise & Sunset time OR Time & Date for Frankfurt am Main.
• You are able to press [SE] to switch from the display of the City to Sunrise & Sunset time OR Time & Date for Frankfurt am Main.

FRANKFURTM ⟵[SET]⟶ 6:19 19:38 ⟵[SET]⟶ 14:23 26 5

SELECT THE COUNTRY AND CITY I 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* '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*

REMOVE YOUR SELECTED THE CITY I 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.

PERSONALIZED 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 $DIGER$.
- 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 me 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 $ZONE + DOHR$ 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 S Sunrise & Sunset Time / Tune & Date.
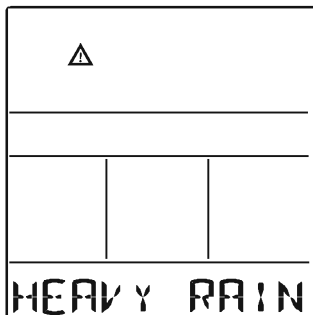
SWITCH DAY WEATHER INFORMATION <- -> NIGHT WEATHER INFORMATION

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.
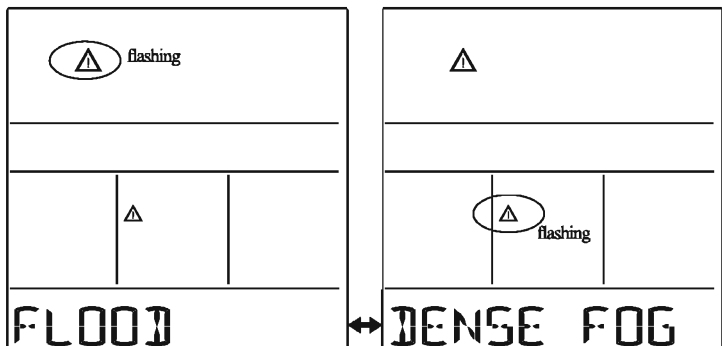

DAY/NIGHT
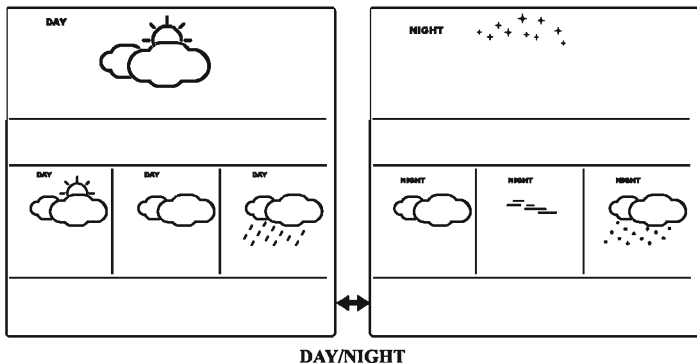
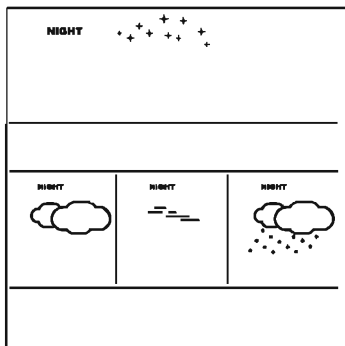## CRITICAL WEATHER INFORMATION

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.

DAY ⟷ NIGHT

DAY ⟷ NIGHT

- 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.

INDOOR I OUTDOOR TEMPERATURE AND HUMIDITY READING

• Press [IN/OUT] keys to switch the reading of indoor or outdoor temperature and humidity reading

[IN/OUT]

🔒 $12.7c 48\%$ ← [IN/OUT] → 🔒OUT $3.2c 23\%$
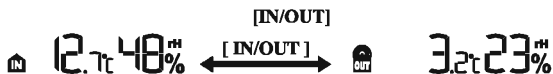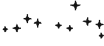
• Press [MEM] key to read the record of the maximum and minimum temperature
• Press and Hold [MEM] key to CLEAR the record of the maximum and minimum temperature

LINKING THE OUTDOOR THERMO-HYGROMETER SENSOR WITH MAIN UNIT IF SIGNAL LOSS.

If the Main unit cannot receive the outdoor sensor signal, the outdoor signal icon will change to 🔒.

• Press and Hold [IN/OUT] button for 3 second, and then the wave icon ⌒ will be flashed. If me signal has been received again, the outdoor signal icon will be 🔒.

Significance	Day	Night	Significance	Day	Night
Sunny (Clear at night)			Heavy Rain		
Light Cloudy			Frontal Storms		
Mostly Cloudy			Heat Storms		
Overcast			Sleet Showers		
Stratus Clouds			Snow Showers		
Fog			Sleet		
Showers			Snow		
Light Rain					

CITIES

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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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 AN DER 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_PATENKIRCHEN	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
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
TRIER	TRIER	D / GER	13
TÜBINGEN	TÜBINGEN	D / GER	59
ULM	ULM	D / GER	25
VILLINGEN-SCHWENNINGEN	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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
GENOVA	GENOVA	I / ITALY	43
LA SPEZIA	LA SPEZIA	I / ITALY	43
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
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
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

CITY FULL NAME	CITY NAME IN SHORT FORM THAT SHOWN ON THE DISPLAY	COUNTRY NAME	REGION
ST_DAVIDS	ST_DAVIDS	UK	15
SWANSEA	SWANSEA	UK	15
VATICANO	VATICANO	V/VATICANO	41
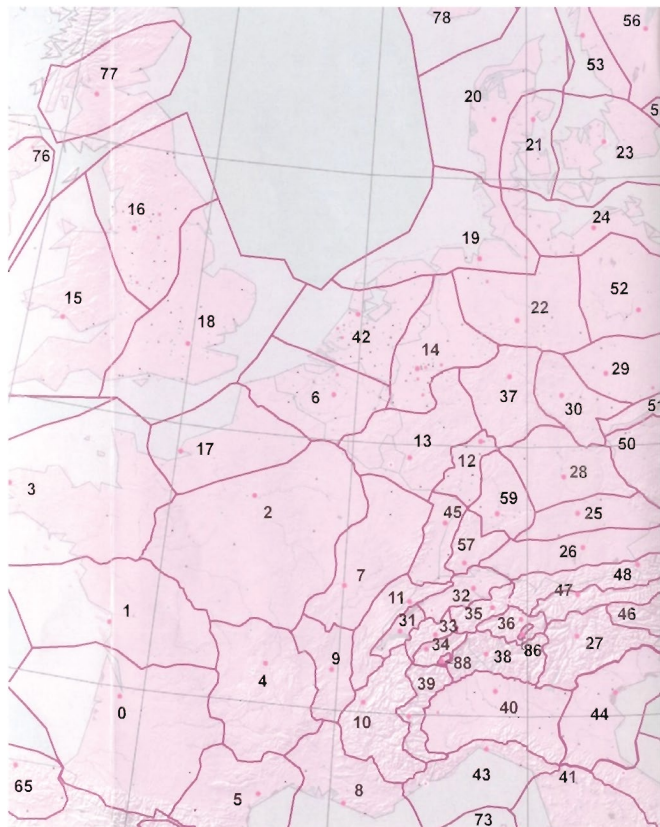
CRITICAL WEATHER MESSAGE IN 10 LETTERS SHORT FORM IN DIFFERENT LANGUAGES

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

SETUP MANUL IN 10 LETTERS SHORT FORM IN ENGLISH

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	MEMFULL
EXIT SETMODE EXIT	EINSTELLUNG VORGENOMMEN

SPECIFICATION ON IN/OUTDOOR TEMPERATURE AND HUMIDITY MEASUREMENT

Temperature Display Range	: - 40 degree C to 70 degree C
Temperature Resolution	: 0.1 degree C
Temperature Accuracy	: +/- 1 degree C
Humidity Display Range	: R.H. 1% to 99%
Humidity Resolution	: 1%
Humidity Accuracy	: +/- 5% (within 25% - 80% at 25 C)
RF Transmission Frequency	: 433 Mhz
RF Transmission range	: Maximum 30 meters (Open Area)

Main Unit is powered by AA batteries x 2 pcs.
Outdoor Thermo-hygrometer is powered by AA batteries x 2 pcs.

EC-DECLARATION OF CONFORMITY

Product: SWS 100

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)
EN 300 220-2, V2.1.2:2007
EN 300 330-2, V1.3.1:2006

Electromagnetic compatibility
(Article 3.1.b of the R&TTE Directive)
EN 301 489-03, V1.4.1:2002

Electromagnetic compatibility
(Article 3.1.a of the R&TTE Directive)
EN 50371:2002

Low voltage directive
applied standard(s)
EN 60950-1:2006

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.