UZOLI

EM3390 Weather Station
User manual

DE

EN

ES

FR

IT

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I. Technical data and functions

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▸ Perpetual calendar until 2099

▸ Time display in 12/24 hour format

▸ Weekday display available in 7 languages: English, German, Italian, French, Spanish, Dutch and Danish

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▸ Sunrise and sunset (select/ locate city)

▸ 6 weather forecast symbols: sunny, partly cloudy, cloudy, rainy, stormy, snowy

▸ Moon phases and tides

▸ Measuring range:

| Indoor temperature	-9.9°C (15°F) to 50°C (122°F)
Outdoor temperature	-40°C (-40°F) to 70°C (158°F)
Humidity	20% to 95%RH
Air pressure	600 to 1100 hPa/mb or 17.72 to 32.50 inHg

▸ 3 wireless outdoor sensors:

  - Install using hanging holes or table stand

  - 433.92MHz RF transmit frequency

  - 60m transmission range in open area

▸ Power supply:

Base station	5V DC plug-in power adapter or 2 x battery LR6/AA/Mignon (NOT included)
Outdoor sensor	2 x battery LR6/AA/Mignon (NOT included)

Note: The wireless outdoor sensor can operate at -40°C to +70°C. Please select the correct battery according to the limit temperature of the wireless sensor:

- Alkaline zinc manganese dioxide battery can work at -20°C to +60°C.

- Lithium-ion rechargeable battery/battery can work at -40°C to +70°C

II. Appearance of the weather station
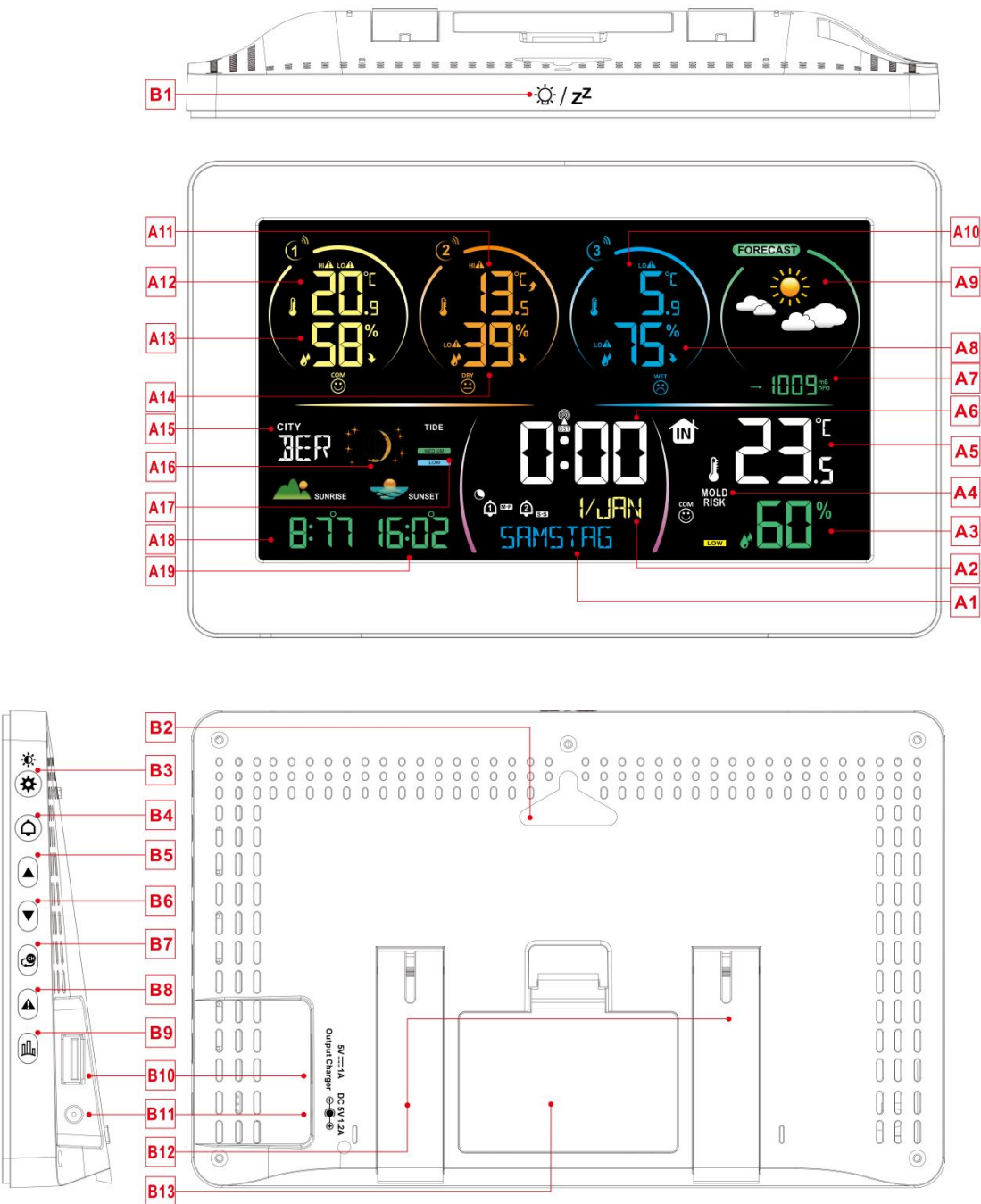
Part A - Positive LCD

A1: Week day	A11: Outdoor temperature of RF channel 2
A2: Month and date	A12: Outdoor temperature of RF channel 1
A3: Indoor humidity	A13: Outdoor humidity of RF channel 1
A4: Indoor mould risk	A14: Outdoor humidity of RF channel 2
A5: Indoor temperature	A15: Selected city
A6: Time	A16: Moon phase
A7: Air pressure	A17: Tide level
A8: Outdoor humidity of RF channel 3	A18: Time of sunrise
A9: Weather forecast	A19: Time of sunset
A10: Outdoor temperature of RF channel 3	

Display symbol

① : RF channel 1	② : RF channel 2	③ : RF channel 3
🔊 : Wireless reception	▭ : Low battery	**MAX** : Max-record temperature/humidity
MIN : Min-record temperature/humidity	➚ : Upward trend of temperature/humidity	➘ : Downward trend of temperature/humidity
HI⚠ : High temperature/humidity alarm	**LO**⚠ : Low temperature/humidity alarm	❄ ice : Frost point alarm
☺ DRY : Dry symbols for comfort	☺ COM : Comfort symbol for comfort	☹ WET : Wet symbol for comfort
📡 : DCF reception from radio clock	**DST** : Summer time	☾ : Night mode of backlight
🔔① : Alarm 1	🔔② : Alarm 2	Z^Z : Snooze function
M-F : Alarm repetition from Monday to Friday	**S-S** : Alarm repetition from Saturday to Sunday	**IN** : Indoor sign where the equipment is located

Part B - Function buttons and power supply

B1: [☼/Z^Z]-touch field	B8: [⚠]-button
B2: Hanging holes	B9: [▯▯]-button
B3: [✿|☀]-button	B10: USB charging output socket
B4: [🔔]-button	B11: Power supply socket
B5: [▲]-button	B12: Support frame
B6: [▼]-button	B13: Battery compartment
B7: [↻CH]-button	
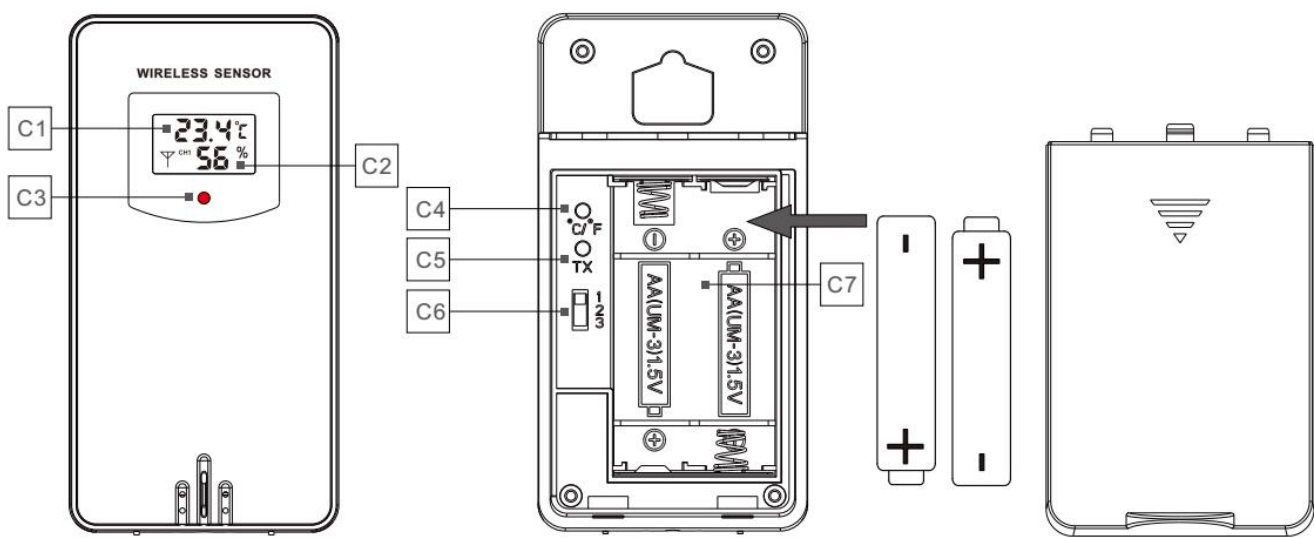
Part C - Wireless remote sensor

C1: LCD display of outdoor temperature	C5: **[TX]**-button for immediate signal transmission
C2: LCD display of outdoor humidity	C6: Switch of RF channel 1/2/3 (CH1/2/3)
C3: Transmit signal LED	C7: Battery compartment
C4: **[°C/°F]**-selection button	

III. Installation instructions

▶ First, connect the base station to the power supply using the power adapter supplied. Alternatively, open the battery compartment of the weather station and insert 2 AA batteries into the battery compartment, observing the polarity markings.

▶ Secondly, open the battery compartments of the 3 external sensors and set them as channel 1, channel 2 and channel 3 respectively. Then insert 2 AA batteries into the battery compartment. Ensure that all batteries are inserted according to the polarity markings on the back of the external sensor. Close the battery compartment.

▶ After inserting the batteries into the external sensors, all symbols on the sensors' LCD display light up briefly for 3 seconds and the sensors measure the outside temperature and humidity. When the signal LED flashes once, the sensors automatically transmit the wireless signals.

▶ If signal transmission stops (the signal lamp on the sensor does not flash red), you can press the **[TX]**-button (for immediate signal transmission) in the sensor battery compartment to manually send the RF signal to the base station. The signal transmission takes about 3 minutes, and when it is finished, the symbol "🖏" appears on the base station above the data of the three channels.

IV. Default setting

1. The base station switches on all segments of the LCD for 3 seconds after switching on the power supply. After the beep "BI", the unit switches to standard mode and starts measuring the indoor temperature and humidity as well as the air pressure.

2. At the same time, the weather station starts receiving the RF signal from all 3 outdoor sensors. If the signal transmission is interrupted (the signal light of the sensor always does not flash red), you can press the **[TX]**-button (for immediate signal transmission) in the battery compartment of the outdoor sensor to send the RF signal to the base station manually. The signal transmission takes about 3 minutes and after completion the symbol "🖏" is displayed above the three channel data on the base station.

3. After receiving the RF signal from 3 outdoor sensors, the base station displays the outdoor temperature and humidity.

4. Standard display when switching on:

① Time and date: 00:00, 24-hour format, 1 January 2022

② Standard unit for temperature: °C

③ Weather forecast: cloudy

④ Language: German

⑤ Time zone: 00

⑥   City: BER (Berlin)

⑦   AUTO RCC: ON

⑧   AUTO DST: ON

⑨   Standard unit for air pressure: hPa and mb

⑩   Alarm 1: 6:00 for M-F; Alarm 2: 8:00 for S-S. (Default setting is OFF)

V. Operating instructions

1. Manual time setting ==== the corresponding setting content flashes when you make the setting, other irrelevant display contents are hidden.

▸ In normal display mode, press and hold the **[✿|☀]**-button for 3 seconds to access the manual time setting.

▸ The setting item flashes at 1Hz, while pressing the **[✿|☀]**-button briefly to select the setting content, the order is as follows:

  Beeper (ON/ OFF) → Temperature unit (°C/ °F) → Air pressure unit (hpa/ inHg) → RCC (ON/ OFF) → DST (ON/ OFF) → Time zone (-02/ -01/ 00/ 01/ 02) → (12/ 24)-hour format → Hours → Minutes → Year → Month → Day → Language → Air pressure (reference value) → Weather (reference value) → Exit

▸ The year is set in the range 2000 to 2099 (default: 1 January 2022).

▸ Language of the day of the week:

Language	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
English	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
German	SONNTAG	MONTAG	DIENSTAG	MITTWOCH	DONNERSTAG	FREITAG	SAMSTAG
French	DIMANCHE	LUNDI	MARDI	MERCREDI	JEUDI	VENDREDI	SAMEDI
Italian	DOMENICA	LUNEDI	MARTEDI	MERCOLEDI	GIOVEDI	VENERDI	SABATO
Spanish	DOMINGO	LUNES	MARTES	MIERCOLES	JUEVES	VIRNES	SABADO
Dutch	ZONDAG	MAANDAG	DINSDAG	WOENSDAG	DONDERDAG	VRIJDAG	ZATERDAG
Dansk	SONDAG	MONDAG	TIRSDAG	ONSDAG	TORSDAG	FREDAG	LORDAG

▸ Language of the month:

Language	January	February	March	April	May	June	July	August	September	October	November	December
English	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
German	JAN	FEB	MAR	APR	MAI	JUN	JUL	AUG	SEP	OKT	NOV	DEZ
French	JAN	FEV	MAR	AVR	MAI	JUI	JUL	AOU	SEP	OCT	NOV	DEC
Italian	GEN	FEB	MAR	APR	MAG	GIU	LUG	AGO	SET	OTT	NOV	DIC
Spanish	ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
Dutch	JAN	FEB	MAA	APR	MEI	JUN	JUL	AUG	SEP	OKT	NOV	DEC
Danish	JAN	FEB	MAR	APR	MAJ	JUN	JUL	AUG	SEP	OKT	NOV	DEC

▸ When the setting value flashes at 1 Hz, press the [▲]-button briefly to add the value by 1, press and hold the

[▲]-button to add the value rapidly.

▸ When the setting value flashes at 1 Hz, briefly press the [▼]-button to decrease the value by 1, long press the

[▼]-button to decrease the value rapidly.

▸ If no operation is performed within 20 seconds, the unit saves the current setting status and automatically exits the

time setting mode.

▸ Quickly touch the touch button [☼/zᶻ] twice during or after setting to exit the manual time setting mode.

▸ If the weather station is in the same time zone as Germany, set the time zone to 00; if it runs one hour slower than

German time, set the time zone to -01; if it runs one hour faster than German time, set the time zone to 01; if it runs 2

hours slower, set it to -02; if it runs 2 hours faster, set it to 02.

▸ Outside the 1500 km diameter range of the German DCF signal tower, the unit will receive poor radio clock signals,

so it is recommended to set the RCC to OFF.

▸ The weather station forecast is based on the analysis of air pressure changes. The air pressure is supplied by the

factory and is set to the absolute pressure. Since the air pressure usually decreases with increasing altitude, the

so-called relative air pressure is always published by the public weather services. In order to obtain a comparable value,

the relative air pressure has been adjusted to the topography of the country. You can adjust the air pressure of the

weather station to the relative air pressure of your location. To do this, you need to set the current air pressure of the

weather station once. Check with your local weather service for the air pressure at sea level, or get the current value

from the Internet. The adjustment of the air pressure setting described above is based on this reason. When the air

pressure is the absolute air pressure, ABS PRESSURE is displayed, and when the air pressure is adjusted, REL

PRESSURE is displayed.

▸ Please select ON or OFF depending on whether daylight saving time applies in your city. The sunrise and sunset

times are also determined according to daylight saving time.

2. Alarm clock settings

▸ In normal display mode, press and hold the **[🔔]**-button for 3 seconds to enter the alarm time setting mode.

▸ The setting items flash at 1Hz, while briefly pressing the **[🔔]**-button to select the setting content, the order is as follows (first alarm 1, then alarm 2):

Hours → Minutes → Repeat alarm (M-F/ M-S/ S-S) → Snooze time (05-60 adjustable/ OFF) → Output

▸ Snooze time is 5 to 60 minutes. Or you can switch off the snooze mode permanently.

▸ There are 3 alarm repetitions to choose from:

M-F: from Monday to Friday

M-S: from Monday to Sunday

S-S: from Saturday to Sunday

If the alarm repeat is set to M-F, the alarm function is activated from Monday to Friday and a " M-F " appears under the alarm symbol.

If the alarm repeat is set to S-S, the alarm function is activated on Saturday and Sunday and a " S-S " appears under the alarm clock symbol.

If the alarm repeat is set to M-S, the alarm function is activated for a whole week, a " M-F " and a " S-S " appear simultaneously under the alarm clock symbol.

▸ When the setting value flashes at 1 Hz, press the **[▲]**-button briefly to add the value by 1, press and hold the **[▲]**-button to add the value rapidly.

▸ When the setting value flashes at 1 Hz, briefly press the **[▼]**-button to decrease the value by 1, long press the **[▼]**-button to decrease the value rapidly.

▸ If no operation is performed within 20 seconds, the unit saves the current setting status and automatically exits the alarm setting mode.

▸ Quickly touch the touch button **[☼/ zᶻ]** twice during or after setting to exit the alarm setting mode.

3. Switch the alarm clock on/off

▸ In normal display mode, briefly press the **[🔔]**-button to switch the alarm time display from Alarm 1 and Alarm 2. In the display mode of Alarm Clock 1/2, the alarm can be switched on or off by pressing the **[▲]**-button**.**

▸ When the alarm 1 or 2 is switched on, the symbol "①" or "②" appears accordingly and the alarm 1 or 2 is activated. In addition, the symbol of alarm repeat is also displayed.

▸ When the alarm 1 or 2 is switched off, the symbol "①" or "②" disappears and the alarm 1 or 2 is deactivated.

4. Deactivate the wake-up call

▶ When the alarm sounds, press any button except the touch button **[☼ / zᶻ]** or press and hold the touch button

[☼ / zᶻ] for more than 2 seconds or do nothing within 2 minutes to stop the alarm signal.

5. Snooze function

▶ When the alarm sounds, briefly press the touch button **[☼ / zᶻ]** once to interrupt the alarm signal and activate the

snooze mode, the snooze symbol "zᶻ" flashes. After the set snooze time has elapsed, the alarm sounds again.

▶ In snooze mode, press any button except the touch button **[☼ / zᶻ]** or press and hold the touch button **[☼ / zᶻ]** for

more than 2 seconds or do nothing within 1 minute to exit snooze mode.

▶ If the snooze function is deactivated, touching the **[☼ / zᶻ]**-button will not switch to snooze mode.

6. Moon phases and tide display

▶ The weather station displays the corresponding 12 moon phases according to the calendar:

New moon	Waxing crescent	First Quarter	Waxing gibbous	Full moon	Waning gibbous	Last Quarter	Waning crescent

▶ In addition, the corresponding 3 tide levels are displayed:

HIGH

MEDIUM

LOW

7. City selection mode (selection of the city of your location)

▶ Press the **[⛰]**-button once briefly to enter the city selection mode. In city selection mode, use the **[▲]** or **[▼]**-button

to select the correct city using the three-letter city code corresponding to the table below.

▶ In city selection mode, press and hold the **[▲]** or **[▼]**-button for 3 seconds, you can change the value of cities faster.

▶ After selecting, press the **[⛰]**-button to return to normal display mode.

No.	Country	City	Code	No.	Country	City	Code
1	Germany (DE)	Berlin	BER	126		Cordoba	COR
2		Bremen	BRE	127		Eivissa Ibiza	IBZ
3		Köln	KOE	128		La Coruña	LCO

4		Dortmund	DOR	129		Las Palmas	LPA
5		Dresden	DRE	130		Leon	LEO
6		Düsseldorf	DUS	131		Madrid	MAD
7		Erfurt	ERF	132		Malaga	MAL
8		Frankfurt	FRA	133		Palma de Mallorca	PDM
9		Freiburg	FRE	134		Salamanca	SAL
10		Hamburg	HAM	135		Sevilla	SEV
11		Hannover	HAN	136		Valencia	VAL
12		Hof	HOF	137		Zaragoza	ZAR
13		Kaiserslautern	KAI	138	Sweden(SE)	Gothenburg	GOT
14		Kassel	KAS	139		Karlstad	KAR
15		Kiel	KIE	140		Stockholm	STO
16		Leipzig	LEI	141	Switzerland (CH)	Basel	BAS
17		Magdeburg	MAG	142		Berne	ESD
18		München	MUN	143		Chur	CHU
19		Nürnberg	ONLY	144		Geneva	GNV
20		Osnabrück	OSN	145		Lucerne	LUC
21		Passau	PAS	146		Lugano	LUG
22		Regensburg	REG	147		Sion	SIO
23		Rostock	ROS	148		St. Gallen	SGL
24		Saarbrücken	SAA	149		Zurich	TO
25		Stuttgart	STU	150	United Kingdom(GB)	Aberdeen	ABD
26		Ulm	ULM	151		Belfast	BEL
27		Würzburg	WUR	152		Birmingham	BIR
28	Austria (AT)	Bregenz	BRZ	153		Cardiff	CAR
29		Graz	GRZ	154		Glasgow	GLW
30		Innsbruck	INN	155		London	LON
31		Linz	LNZ	156		Manchester	MAN
32		Salzburg	SLZ	157		Newcastle upon Tyne	NEC
33		Vienna	HOW	158		Plymouth	PLY
34		Villach	VIL	159	Lithuania(LT)	Vilnius	VNO
35		Wels	WEL	160	Bulgaria(BG)	Sofia	SOF
36	Belgium(BE)	Antwerp	ANT	161	Romania(RO)	Bucharest	BUH
37		Bruges	BRG	162	Cyprus(CY)	Nicosia	NIC
38		Brussels	BRU	163	Nicaragua (NI)	Belfast	FSO
39		Libramont	LIB	164	United States(US)	Washington DC	WDC
40		Liege	LIE	165		New York	NYC
41	Bosnia & Herzegovina (BA)	Sarajevo	SAR	166		Los Angeles	LAS
42	Croatia(HR)	Split	SPL	167		Chicago	CHI

43		Zagreb	ZAG	168		Houston	HOU
44	Czech Republic (CZ)	Brno	BRN	169		Phoenix	PHO
45		Prague	PRG	170		San Antonio	SAO
46	Denmark(DK)	Aalborg	ALB	171		San Diego	SDO
47		Copenhagen	KOB	172		Dallas	DAL
48		Odense	ODE	173		San Francisco	SFO
49	Finland(FI)	Helsinki	HEL	174		Philadelphia	PHL
50	France (FR)	Ajaccio	AJA	175		Charlotte	CHA
51		Biarritz	BIA	176		Seattle	SEA
52		Bordeaux	BOR	177		Denver	THE
53		Brest	BRT	178		Boston	BOS
54		Cherbourg-Octeville	CHE	179		Detroit	DET
55		Clermont-Ferrand	CMF	180		Nashville	NAS
56		Dijon	DIJ	181		Memphis	MEM
57		Lille	LIL	182		Portland	PTL
58		Lyon	LYO	183		Oklahoma city	OKC
59		Marseille	MRS	184		Las Vegas	LVG
60		Metz	MET	185		Milwaukee	MWK
61		Nantes	NAN	186		Kansas City	KAN
62		Nice	NCE	187		Atlanta	ATL
63		Orleans	ORL	188		Miami	MIA
64		Paris	PAR	189		Virginia beach	VAB
65		Perpignan	PER	190		Oakland	OAK
66		Rouen	ROU	191		Minneapolis	MIN
67		Strasbourg	STR	192		New Orleans	NOL
68		Toulouse	TOU	193		Cleveland	CLE
69	Greece(GR)	Athens	AHN	194		Tampa	TAM
70	Hungary(HU)	Budapest	BUD	195		Honolulu	HON
71	Ireland(IE)	Dublin	DUB	196		St.Louis	SLS
72	Italy(IT)	Ancona	ANC	197		Pittsburgh	PIT
73		Bari	BAR	198		Cincinnati	CIN
74		Bolzano	BOZ	199		Lincoln	LIN
75		Cagliari	CAG	200		Orlando	ORD
76		Florence	FIR	201		Buffalo	BUF
77		Foggia	FOG	202		Richmond	RMD
78		Genoa	GEN	203		Columbia	COL
79		Lecce	LEC	204		Little Rock	LRC
80		Messina	MES	205		Columbus	CLS
81		Milan	MIL	206		Grand Rapids	GRS
82		Naples	NAP	207		Salt Lake City	SLC
83		Palermo	PAL	208		Providence	PVD

84		Parma	PRM	209		Manchester(NH)	MNH
85		Perugia	PEG	210		San Diego	SDG
86		Rome	ROM	211		Santa Fe	SFE
87		San Remo	SRE	212		Bismarck	BIS
88		Triest	TRI	213		Reno	REN
89		Turin	TUR	214		New Haven	NHV
90		Venice	VEN	215		Baltimore	BAL
91		Verona	VER	216		South Carolina (SC)	SCR
92	Liechtenstein (LI)	Vaduz	VDZ	217		Savannah	SAV
93	Luxembourg (LU)	Luxembourg	LUX	218	Canada(CA)	Ottawa	OTT
94	Monaco(MC)	Monte Carlo	MCM	219		Quebec City	QUC
95	Netherlands (NL)	Amsterdam	AMS	220		Edmonton	EDM
96		Arnhem	ARN	221		Calgary	CLY
97		Eindhoven	ONE	222		Vancouver	VAN
98		Groningen	GRO	223		Montreal	MON
99		Rotterdam	RED	224		Toronto	TOR
100		The Hague	DHA	225	Mexico(MX)	Mexico City	MEX
101	Norway(NO)	Bergen	BGN	226	Panama(PA)	Panama City	PAN
102		Lillehammer	LLH	227	Brazil(BR)	Brasília	BRA
103		Oslo	OSL	228		Belo Horizonte	BHZ
104	Poland(PL)	Cracow	KRA	229		Recife	REC
105		Gdansk	GDA	230		Rio de Janeiro	RIO
106		Poznan	POZ	231		São Paulo	SPA
107		Warsaw	WAR	232		Salvador	SLV
108	Portugal(PT)	Faro	FAR	233	Argentina (AR)	Buenos Aires	BUE
109		Lisbon	LIS	234		Cordoba	CDB
110		Porto	POR	235		La Plata	LPL
111	Russian Federation (RU)	St. Petersburg	PET	236		Mardel Plata	MAR
112		Moscow	MOS	237		Mendoza	MEN
113		Novosibirsk	NOV	238		Rosario	ROO
114		Kazan	KAZ	239	Chile(CL)	Santiago de Chile	SAN
115		Volgograd	VOL	240	Colombia(CO)	Bogotá	BOG
116		Yekaterinburg	YEK	241	Australia(AU) and New Zealand(NZ)	Canberra	CBR
117	Serbia(RS)	Belgrade	BEO	242		Melbourne	MEL
118	Slovakia(SK)	Bratislava	BRV	243		Sydney	SYD
119		Kosice	KOS	244		Wellington	WLG
120	Slovenia(SI)	Ljubljana	LUB	245		Adelaide	ADE
121	Spain(ES)	Alicante	ALI	246		Brisbane	BRI

| 122		Andorra	AND	247		Darwin	DRW
123		Badajoz	BAD	248		Hobart	HBA
124		Barcelona	BRC	249		Perth	PEH
125		Bilbao	BIL	250		Auckland	AKL
				251		Christchurch	CHC

▸ If no operation is performed within 20 seconds, the unit saves the current setting status and automatically exits the city selection mode.

▸ Quickly touch the touch button **[☼/z^z]** twice during or after the setting to exit the city selection mode.

8. Manual setting of the city

▸ If your location is not in a city in the table, you can set the city manually. However, before you make this setting, you need to check the ZONE, LONGITUDE and LATITUDE of your city.

▸ Press and hold the **[⬚]**-button for more than 2 seconds to enter the custom city setting mode.

▸ In setting mode, the setting item flashes at 1Hz, then briefly press the **[⬚]**-button to select the setting content, the order is as follows:

the first letter of the custom city code → the second letter of the custom city code → the third letter of the custom city code → time zone → longitude → latitude → exit

Note: Please set the custom city code first. There are 3 codes in total, you can choose any combination of 26 letters.

▸ Quickly touch the touch button **[☼/z^z]** twice during or after adjustment to exit manual adjustment mode.

▸ After you select a city differently or set it manually, the sunrise time and sunset time are automatically calculated according to the location, time zone and current time of the selected or manually set city and displayed in the corresponding area.

9. Wireless sensor transmission

▸ Please note that you need to select different channels for 3 sensors. The weather station can connect to up to 3 outdoor sensors, but the wireless sensors cannot register on the same channel at the same time. (Notes: You can select the channel in the battery compartment of the sensor).

▸ When the base station successfully receives the signal from the outdoor sensor, the outdoor temperature and humidity are displayed on the dispaly area of channel 1, 2 and 3.

▸ If the base station does not receive the transmission signal from a channel ("-- --") is displayed on the area of corresponding channel data, briefly press the **[⟳]**-button to select the corresponding channel number. After selection, the corresponding channel number flashes. At this time, press and hold the **[⟳]**-button for 3 seconds to receive the

transmission signal again. If the signal transmission is interrupted, you can also press the **[TX]** button (for immediate signal transmission) in the battery compartment of the corresponding outdoor sensor to send the RF signal to the base station manually.

▶ If the base station does not receive the transmission signal from all channels ("-- --") are displayed on the area of all channel data, press and hold the **[CH]**-button for 3 seconds to clear the past data and register all channels again. If the signal transmission is interrupted, you can also press all **[TX]**-buttons (for instant signal transmission) in the battery compartment of the outdoor sensor to send the RF signal to the base station manually.

▶ After completion, the base station receives the radio signal from the outdoor sensor again and the radio receiving antenna symbol "〽" flashes.

10. Temperature and humidity measurement

▶ Indoor temperature measuring range: -9.9°C (+14°F) to +50°C (+122°F), division value 0.1°C/°F;

LL.L °C/°F is displayed when the value is below -9.9°C (+14°F);

HH.H °C/°F is displayed when the value is above +50°C (+122°F).

▶ Outdoor temperature measuring range: -40°C (-40°F) to +70°C (+158°F), division value 0.1°C/°F;

LL.L °C/°F is displayed when the value is below -40°C (-40°F);

HH.H °C/°F is displayed if the value is higher than +70°C (+158°F).

▶ Humidity measuring range: 20% to 95% RH, division value 1%RH;

19% RH is displayed when the value is below 20% RH;

96% RH is displayed when the value is above 95% RH.

Note: The indoor temperature and humidity are measured every 60 seconds. But during the 3-minute RF long reception mode, 7-minute RCC long reception mode and the wake-up alarm mode, the measurement of the indoor temperature and humidity is not performed, which is why the measurement values are not updated.

11. Display of temperature/humidity with trends

▶ Temperature trend:

⬆ : If the temperature has increased by 1°C (1.8°F) in each measurement compared to the previous data or if the temperature has increased by 1°C (1.8°F) in total within 1 hour, the trend arrow points upwards;

⬇ : If the temperature has decreased by 1°C (1.8°F) in each measurement compared to the previous data or if the temperature has decreased by 1°C (1.8°F) in total within 1 hour, the trend arrow points downwards.

No trend: when switching on or when the temperature remains constant.

▸ Humidity trend:

↗: If the humidity has increased by 5%RH in each measurement compared to the previous data, or if the total humidity has increased by 5%RH within 1 hour, the trend arrow points upwards;

↘: If the humidity has decreased by 5%RH in each measurement compared to the previous data or if the total humidity has decreased by 5%RH within 1 hour, the trend arrow points downwards.

No trend: when switching on or when the humidity remains constant.

12. Max/ min display for temperature and humidity

▸ In normal display mode, briefly press the **[▼]**-button to switch between the maximum and minimum indoor/ outdoor temperature/ humidity data, the order is as follows:

Max display → Min display → Exit

▸ To reset the maximum and minimum temperature and humidity values, press and hold the **[▼]**-button for 3 seconds in Max/Min display mode. This will reset all recorded minimum and maximum data to the currently displayed values.

Note:

LL.L is displayed, if the temperature is below the measuring range;

HH.H is displayed, if the temperature is above the measuring range;

19%RH is displayed, if the humidity is below the measuring range;

96%RH is displayed, if the humidity is above the measuring range.

13. Switch on/ off for temperature/ humidity/ frost point alarm

▸ In normal display mode, briefly press the **[⚠]**-button to switch to temperature and humidity alarm display mode.

▸ In alarm display mode, press the **[⚠]**-button to switch to the next display value. And press the **[⟲ᶜᴴ]**-button to change the alarm display from indoor to outdoor (*IN→CH1→CH2→CH3*). The display order is as follows:

Upper temperature limit alarm → Lower temperature limit alarm → Upper humidity limit alarm → Lower humidity limit alarm → Frost point alarm (INDOOR has no frost point alarm).

▸ In alarm display mode, press the **[✿|☀]**-button to switch the corresponding alarm on/off (**the** default is OFF). When switched on, the corresponding symbol "ᴴᴵ⚠", "ᴸᴼ⚠" or "❄ᵢ𝒸ₑ" is displayed.

14. Setting for temperature and humidity limit

▸ In normal display mode, press and hold the **[⚠]**-button for 3 seconds to enter the temperature and humidity limit setting mode.

▸ In setting mode, the setting value flashes at 1Hz, then press the **[⚠]**-button to move to the next setting value. And press the **[⟲ᶜᴴ]**-button to change the alarm display from indoor to outdoor (*IN→CH1→CH2→CH3*). The setting sequence is as follows:

upper alarm limit for temperature → lower alarm limit for temperature → upper alarm limit for humidity → lower alarm limit for humidity → exit

▸ In the setting mode, press the **[▲]** or **[▼]**-button to change the limit value.

▸ Quickly touch the touch button [☼/ zᶻ] twice during or after the setting to exit the setting mode.

▸ If no operation is performed within 20 seconds, the unit saves the current setting status and automatically exits the setting mode.

15. Alarm for temperature/humidity/frost point

▶ When the temperature/humidity alarm is switched on, if the temperature/humidity exceeds the set threshold, the alarm sounds and the corresponding symbol "HI⚠" or "LO⚠" flashes on the display.

▶ If, when the frost point alarm is switched on, the outside temperature is within the range -1°C (+30.2°F) to +2.9°C (+37.3°F), the alarm sounds and the symbol "❄" flashes on the display.

▶ In this alarm mode, press any button to stop the alarm sound, but the alarm icon will continue to flash.

16. Comfort level and mould risk warnings

▶ There are 4 display modes for the comfort level, as follows:

DRY 😐	The temperature is any value, the humidity is less than 40%
COM 😊	The temperature ranges from 20°C (68°F) to 28°C (82.4°F), Humidity in the range of 40% to 70%.
WET 🙁	The temperature is any value, the humidity is greater than 70%
No symbol	The temperature is below 20°C (68°F) or above 28°C (82.4°F), the humidity is in the range of 40% to 70%.

▶ The weather station determines the mould risk level by intelligently evaluating the indoor temperature and humidity and there are 4 levels:

High risk: with the symbol "HI"
Medium risk: with the symbol "ME
Low risk: with the symbol "LO
No risk: without symbol

17. Display of air pressure with trends

▶ Air pressure measuring range: 600 hPa/mb (17.72 inHg) to 1100 hPa/mb (32.48 inHg), division value 1 hPa/mb or 0.01 inHg.

▶ Air pressure trend:

↗ : *If the air pressure has increased by 1 hPa in each measurement compared to the previous data or if the air pressure has increased by 1 hPa in total within 1 hour, the trend arrow points upwards;*

→ : *If each measurement shows no change in air pressure compared to the previous data, or if there is no change in air pressure within 1 hour, the trend arrow points to the right.*

↘ : *If the air pressure has decreased by 1 hPa in each measurement compared to the previous data or if the air pressure has decreased by 1 hPa in total within 1 hour, the trend arrow points downwards.*
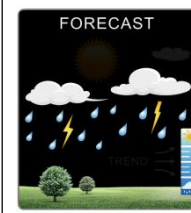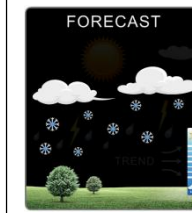
18. Weather forecast

▶ The weather station calculates a weather forecast for approximately the next 12 hours based on the change in air pressure. Of course, this forecast cannot be compared with that of professional weather services supported by

satellites and high-performance computers. This forecast only provides an approximate indication of the current weather development in a small local area. Please consider the weather forecast of your local weather service as well as the forecast of your weather station at the same time. In case of discrepancies between the indications of your device and the local weather forecast service, please take the indications of the latter as authoritative.

▶ The weather station displays the following 6 weather symbol:

FORECAST	FORECAST	FORECAST	FORECAST	FORECAST	FORECAST
sunny	partly cloudy	cloudy	rainy	stormy	snowy

▶ The "snowy" icon is only displayed if the outdoor temperature is below -4°C (+24.8°F) and the forecast would be rainy or stormy. The outdoor temperature mentioned here is set to the temperature of CH1 by default. (If there is no signal in CH1, the base station sets the temperature of CH2 to the outdoor temperature by default. If there is no signal in CH2, the base station sets the temperature of CH3 to the outdoor temperature by default).

▶ It takes 7 to 10 days for the weather station to complete the air pressure calibration. After the air pressure calibration, the weather forecast stabilises with an accuracy rate of 70 to 75%.

▶ The weather station can give weather forecasts for a radius of 12-20 kilometres.

19. Reception of the radio clock signal

▶ The base station does not automatically switch to DCF signal reception mode immediately after 3 minutes of RF reception after switching on. If you need to receive the DCF signal immediately, please press and hold the **[▲]**-button for 3 seconds to enter the DCF signal reception mode manually. The symbol "$\mathbf{\dot{Y}}$" flashes.

▶ Note that in DCF signal reception mode, the backlight is automatically switched off and all button functions except the **[▲]** and **[☼ / Zᶻ]**-buttons are temporarily disabled. After the radio clock time signal reception is completed, the backlight is automatically switched on and the button functions are also reactivated.

▶ The signal reception takes about 7 minutes. The symbol "⊚" flashes when the base station successfully receives the valid DCF signal, and after the 7-minute signal reception is completed, the radio mast symbol "⊚" is permanently shown on the display.

▶ If you want to forcibly stop the DCF signal search, you can press and hold the **[▲]**-button for 3 seconds.

▶ Every day at 1:00/ 2:00/ 3:00 the radio-controlled clock automatically synchronises with the DCF signal to compensate for any deviations from the exact time. If this synchronisation attempt fails (the radio mast symbol "⊚" disappears from the display), the system automatically attempts another synchronisation at the next full hour. This process is automatically repeated up to a total of 5 times.

▶ As long as the summer time function is switched on, the symbol "**DST**" is displayed when the base station receives the time signal from summer time. (But during winter time this symbol disappears).

   Note:

   It is definitely recommended that the weather station be kept at least 2.5 metres away from all sources of interference such as televisions, computer monitors, etc.

   Radio reception is weaker in rooms with concrete walls (e.g. basements) and in offices. In such extreme

circumstances, place the weather station near the window.

20. Low battery status

▸ If the symbol "▭" is shown on the display in the indoor area⌂, you need to replace the base station battery as soon as possible.

▸ If the symbol "▭" is shown on the display in the area of channels, you need to renew the battery of the corresponding outdoor sensor as soon as possible.

21. Backlight with adjustable night mode

▸ If the base station is powered by batteries only, touch the **[☼/z^Z]**-button to light the display for 15 seconds.

▸ When the base station is operated with the mains adapter, the backlight always remains bright. Touch the **[✿|☼]**-button to set the backlight to 5 levels: 4 different brightness levels and off. If the brightness is set a little lower, touch the **[☼/z^Z]**-button, you can keep the display at its brightest for 15 seconds.

▸ The weather station can also set the backlight to automatically dim at night. Touch the **[☼/z^Z]**-button for 3 seconds to enter the night mode setting. Then press the **[▲]** or **[▼]**-button, you can switch the night mode on or off.

▸ In the setting mode, press the **[✿|☼]**-button to set the night mode. While pressing the **[▲]** or **[▼]**-button, you can add or decrease the setting value. The order of setting is as follows:

the brightness at night → start hour of night mode → start minute of night mode → end hour of night mode → end minute of night mode → exit

▸ Quickly touch the touch button [☼/z^Z] twice during or after the setting to exit the setting mode.

▸ When the night mode is switched on, the symbol "🌑" is shown on the display. When the time to enter night mode is reached, the backlight automatically switches to the set night mode brightness and when the time to exit night mode is reached, the backlight returns to the original brightness.