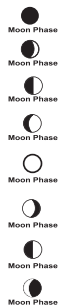


MOON PHASES

Throughout the 28 days of the lunar month, the aspect of the moon changes. Indeed, the moon, being spherical, is always half lightened up by the sun. As the moon rotates around the Earth, the appearance of its lightened side changes continuously. This phenomenon creates moon phases. The moon phase on your MeteoClock is automatically updated according to the year/ month/day.

Moon Phase Display

1. New Moon
2. Young Crescent
3. First Quarter
4. Waxing Gibbous
5. Full Moon
6. Waning Gibbous
7. Last Quarter
8. Old Crescent



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TEMPERATURE & HUMIDITY DISPLAY

Check Inside Temperature and humidity

After inserting the batteries, the local temperature and humidity will be displayed (*).

Check Outside Temperature & Humidity

1. Press CHN [4] to toggle between the data of your various remote sensors: Outside 1 (channel 1), Outside 2 (channel 2) and Outside 3 (channel 3). Temperature and humidity readings will alternate on the receiver.
- Note: if you do not have any additional sensors, please disregard this function.

°C or °F Temperature Display

2. Toggle between °C and °F by pressing Snooze [5] in Clock 2 mode.

Min and Max Temperature & Humidity

3. Press MINUTE/- [3] in Clock 1 mode to display minimum temperature and humidity records.
4. Press HOUR/+ [2] in Clock 1 mode to display maximum temperature and humidity records.

Display HI & LO

*HI and "Lo" displayed onscreen mean that the temperature or humidity is outside the range of specification.

Inside/ Outside	Temperature	Humidity	Display
Inside	≥ +5.5°C	≥ 95%	HI
Inside	≤ -20°C	≤ 1.5%	LO
Outside	≥ +70°C	≥ 95%	HI
Outside	≤ -30°C	≤ 1.5%	LO

TEMPERATURE & HUMIDITY TREND

The trend indicator shows the trend of temperature & humidity determined by the particular sensor in the past half hour interval.

Arrow Indicator	Trend
	Rising
	Steady
	Falling

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TEMPERATURE ALARM

You can set high temperature or low temperature alarms for one local channel and for one remote channel.

Local temperature alarm

1. Scroll to temperature alarm mode by using MODE (Inside).
2. The default value 14°C or existing preset will flash.
3. Press Hour/+ [2] or Minute/- [3] keys to set the temperature limit value.
4. Press Snooze [5] key continuously to scroll and select the high temperature alarm () or low temperature alarm () or disable the alarm () function (blank).
5. Press mode [1] to save your settings.

Outdoor temperature alarm

1. Scroll to remote channel temperature alarm mode by using mode [1].
2. Press CHN [4] to select the channel of the desired transmitter.
3. The default value 14°C or existing preset will flash.
4. Press Hour/+ [2] or Minute/- [3] keys to set the temperature limit value.
5. Press Snooze [5] key continuously to scroll and select the high temperature alarm (), low temperature alarm () or disable the alarm function (blank).
6. Press mode [1] to save your settings.

When the temperature alarm sounds

The icon signals that the temperature has exceeded the preset temperature limit.

- a. Press any key to stop temperature alarm.
- b. If no key is pressed, the temperature alarm will automatically stop itself after one minute.
- c. Once triggered, temperature alarm comes on as a distinctive sound, different to that of Alarm 1 and Alarm 2.

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RAINFALL & ANEMOMETER DISPLAY

Rainfall

The rainfall can be displayed in mm or in, moreover it can show the rainfall record in total, at last hour, today & yesterday.

Change the display unit

Press the Min key at clock 1 can change the display unit of rainfall and wind speed.

Display the rainfall record

To display the last hour, today & yesterday's rainfall
Press the Hour key at clock 1 to change the rainfall record

Wind speed

The wind speed can be displayed in km/h, mph.

Change the display unit

Press the Min key at clock 1 can change the display unit of rainfall and wind speed.

WEATHER FORECAST & DISPLAY

Animated weather forecast symbols

This weather station is capable of detecting barometric pressure changes, and based on the data collected, can predict the weather for the next 12 to 24 hours. The effective range covers an area of 30 - 50km.

Sunny	Cloudy	Raining	Snowing	Freeze Warning	Storm Alert

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Storm Alert

* The storm symbol will flash to warn of a thunderstorm.

* It is activated when pressure falls/rises and temperature plunges.

About Snow and Freeze Warning

* The snow symbol will flash to warn that it might snow.

* Activated when the temperature of Channel 1 is between -1.9 °C & +2.9 °C.

* The snow symbol will appear solid when the temperature of channel 1 falls below -1.9 °C, and it is freezing.

Note:

* The remote sensor set at channel 1 displays the weather forecast icons (as well as the trend indication).

Please place it outdoors.

REMARKS:

- After having completed the settings of your weather station, please discard the readings of the weather forecast for the next 12-24 hours. This will allow sufficient time for the Weather Station to operate at a constant altitude and therefore result in a more accurate forecast. Absolute accuracy cannot be guaranteed regarding weather forecasting.
- The weather forecasting feature is estimated to have an accuracy level of about 75% due to the varying areas the Weather Station has been designed to be used in. If the Weather Station is moved to another location significantly higher or lower than its initial standing point (e.g. from ground floor to 1st floor of a house), remove the batteries and reinsert them after about 30 seconds. By doing this, the Weather Station will mistakenly consider the new location as a possible change in air pressure. Again, discard the weather forecasts for the next 12-24 hours as to allow time for operation at a constant altitude.

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Pressure trend

The trend pointer displayed at indicates the trend of the barometric pressure.



Indicates that the barometric pressure trend is increasing.



Indicates that the barometric pressure trend is steady.



Indicates the barometric pressure trend is decreasing.

Altitude setting

The altitude setting can calibrate the pressure reading of main unit to its position. It is because the exact pressure reading will be affected with the altitude of the main unit.

1. After Alarm setting, and then press mode key can go to Altitude setting mode.
2. Press Max and Min key to increase and decrease the altitude reading one at a time
3. SNOOZE key is to select pressure (hPa & inchHg) altitude (m & feet) units in altitude setting mode.

Since the default altitude is zero (sea level), after reset pressure display shows absolute pressure. To see the relative pressure, user must enter the altitude for his/her current location.

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PRESSURE HISTORICAL BAR GRAPH

The bar graph lets you see the pressure trend over a period of 12 hours. The bar graph will show the pressure trend.



Note:

The weather forecast, by the means of the animated icons, depends on the evolution of the barometric pressure. By consulting the barometric pressure historical graph you can evaluate the likelihood or the strength of the weather forecast currently displayed. For example, if the pressure has steadily increased over the past 12 hours but decreases slightly in the next 3 hours, the weather station might forecast rain, but you could expect the probability of rain to remain low. On the other hand, if you observe a sudden and large shift in pressure, the weather forecast is more likely to be extreme. For example, if the forecast is rain, and you observe a large and sudden downward shift of pressure, the rain is likely to be heavy.

FCC STATEMENT

The statement required by 15.105 is as follows:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Statement required by 15.19 and RSS210

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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FCC STATEMENT

Warning: Any changes or modifications made to this equipment not expressly approved by Mandolyn Electronic Ltd. may void the FCC authorization to operate

SPECIFICATIONS

Weather Station Receiver WS635

Battery Type: 3 X 1.5V AA batteries

Measurement	Range	Resolution
Temperature Inside	-20 °C to +70 °C	0.1 °C
Temperature Outside	-30 °C to +70 °C	0.1 °C
Humidity/Inside/Outside	15% to 95%	1%
Pressure	800mbar to 1100mbar	1mbar
Wind Direction	16 directions	22.5°
Wind speed	0km/h to 127.5km/h	0.5 km/h
Rain Volume	-	0.2mm

Weather Station Transmitter WT460

Battery Type: 2 X 1.5V AA batteries

Temp. Range: -30 °C to +70 °C

Humidity Range: 15% to 95%

Transmission Frequency: 433.92MHz

Transmission Range: Up to 40 meters in open area.