

WIRELESS 868 MHz REMOTE RAIN METER

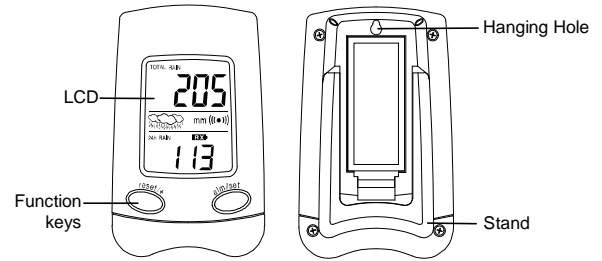
Instruction Manual

INTRODUCTION:

Congratulations on purchasing this tiny 868MHz rain meter which displays the total rainfall and rainfall amount of the last 24 hours. With only two simple keys, this innovative product is user-friendly and ideal for domestic use.



30



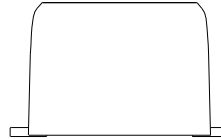
31

FEATURES:

The rain meter station

- Display of the total rainfall amount in mm
- Display of the rainfall amount of the last 24 hours in mm
- Alarm function for the last 24-hour rainfall amount
- Heavy rain /light rain indicator displayed on the LCD
- Low battery indicator for both the rain meter station and rain sensor
- Table standing or wall mountable (foldout table stand)

The Outdoor Rain sensor



- Remote transmission of rainfall measurements by 868 MHz signal.
- Can be fixed onto a horizontal panel with the screws provided.

SETTING UP:

1. First, insert the batteries into the outdoor rain sensor. (see **“How to install and replace batteries into the rain sensor”** below).

2. Within 1 minutes of powering the rain sensor, place the batteries into the rain meter station (see "**How to install and replace batteries into the rain meter station**" below). Once the batteries are in place, all the segments will light up momentarily and a beep sound will be heard.
3. Then the rain meter station will start to receive data from the outdoor rain sensor. Total rainfall and 24 h rainfall readings will then be displayed as "0" on the LCD. If this does happen after few minutes, the batteries will need to be removed from both units and reset from step 1.

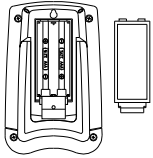
Note:

Both the "Total Rain" and "24h Rain" readings should be "0" before any water has fallen into the rain sensor when setting up. If the

readings are not "0" initially, you may need to remove batteries from both units and reset from step 1.

4. Once the rainfall readings have been received and are displayed on the rain meter station, you may set up a desired rainfall alarm value for the 24-hour rainfall and the rain meter will start to operate normally.

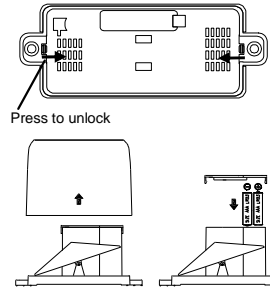
How to install and replace batteries into the rain meter station



1. Flip open the battery cover at the back of the rain meter station.
2. Checking the correct polarization, insert 2 x AAA, IEC LR3, 1.5V batteries into the battery compartment.
3. Replace the cover.

36

How to install and replace batteries into the rain sensor



1. Unlock the main cover from the rain sensor base and remove the cover.
2. Remove the battery cover at the top of the rain sensor.
3. Insert 2 x AAA, IEC LR3, 1.5V batteries into the battery compartment, observing the correct polarity.
4. Replace the battery cover and the main cover on the unit.

37

Note:

In the event of changing batteries in any of the units, all units need to be reset by launching the setting up procedures. This is because a random security code is assigned by the rain sensor at start-up and this code must be received and stored by the rain meter station in the first minutes of power being supplied to it.

BATTERY CHANGE:

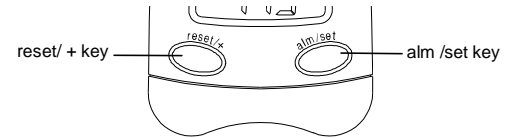
It is recommended to replace the batteries in all units every 36 months to ensure optimum accuracy of these units.



**Please help in the preservation of the environment.
Return used batteries to an authorized depot.**

Function Keys:

There are two easy-to-use function keys on the rain meter station



reset/ + key

- Press and hold for over 4 seconds to reset the main rainfall counter (a beep will be heard after 2 seconds, then the counter will be reset and a beep will be heard after 4 seconds)

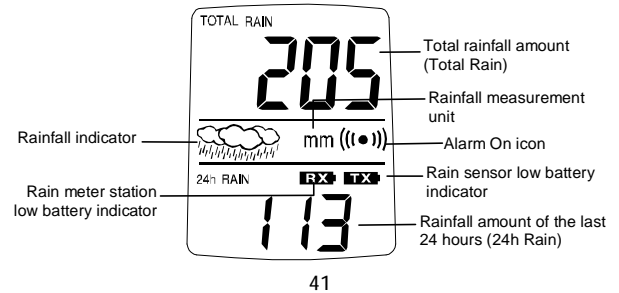
- Press to adjust the alarm value by one unit (1 mm) in alarm setting
- Press to stop the sound of the alarm

alm/ set key

- Press and hold this key for 2 seconds to activate/ deactivate the rainfall alarm (the alarm icon will be displayed). Pressing the key again for 2 seconds will deactivate the alarm, as for a traditional alarm clock.
- Press and hold for more than 2 seconds to enter the alarm setting (a beep will be heard, the value will be flashing on line 2, preset to 0.0 mm). Press again to exit the alarm setting (there is also a 15 second timeout.) A beep will be heard in both cases.

- Press to stop the sound of the alarm

LCD SCREEN



RAINFALL READING

There are two rainfall readings shown on the LCD:

1. Total Rain

It is the amount of rainfall accumulated and measured since the rain meter has started working or since the last reset of the rain meter.

2. 24h Rain

It is the amount of rainfall accumulated and measured during the last 24 hours. This reading will be updated every hour.

HEAVY AND LIGHT RAINFALL INDICATOR

The rain meter will show a rainfall icon which indicates the rainfall level.



Light rain icon -

Appears when any amount of rainfall is detected



Heavy rain icon (moving) -

Appears when the measured rainfall is more than 5 mm in the last 10 minutes

ALARM SETTING MODE

Rainfall alarm function is provided with this rain meter. User may set a rainfall alarm value for the 24-hour rainfall amount. (The alarm value can be up to 100 mm).

You may perform the following steps to set up the rainfall alarm:

1. Press and hold the alarm/ set key for about 4 seconds, The "Alarm On" icon (((•))) will appear and the digits will be flashing.
2. Press the reset/+ key to adjust the rainfall alarm value.
3. Press the alm/set key to confirm the setting and return to the normal display mode.

Note

- In normal display mode, user may press the alm/set key to

activate [(((•))) shown] or deactivate [(((•))) not shown] the rainfall alarm.

- When the 24-hour rain amount reaches the preset alarm value and the alarm is activated, the alarm will sound for 2 minutes. You may then press any key to stop the sound yet the 24-hour rainfall digits will keep flashing.

RESETTING THE TOTAL RAINFALL READING

If you want to clear the accumulated total rainfall reading, you may reset the total rainfall reading to zero by respecting the following step:

1. Press and hold the reset/+ key for over 4 seconds - with a beep after 2 seconds and a reset and a beep after 4 seconds. Then the Total Rain reading will be reset to "0".

Note:

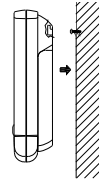
The 24-hour reading will remain unchanged after the Total rainfall reading has been reset.

POSITIONING

THE RAIN METER STATION:

The rain meter station comes complete with a convenient stand that offers the option of table standing or wall mounting. Before wall mounting, please ensure that the distance between the rain meter station and the rain sensor is not larger than 100 metres.

To wall mount:

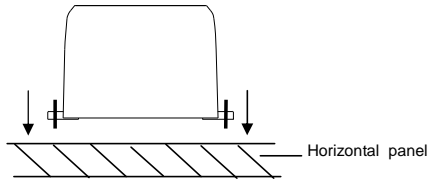


1. Fix a screw into the desired wall, leaving the head extended out the by about 5mm.
2. Carefully hang the station onto the screw by the hanging hole

Note: Always make sure that the unit locks onto the screw head before releasing.

OUTDOOR RAIN SENSOR:

The Outdoor rain sensor is supplied with two screws which allow you to fix the rain sensor onto a horizontal panel.



48

CARE AND MAINTENANCE:

- Extreme temperatures, vibrations and shocks should be avoided as these may cause damage to the units and give inaccurate forecasts and readings.
- When cleaning the displays and casings, use a soft damp cloth only. Do not use solvents or scouring agents as they may mark the LCD and casing.
- Do not submerge the units in water.
- Immediately remove all low powered batteries to avoid leakage and damage. Replace only with new batteries of the recommended type.
- Do not make any repair attempts to the units. Return it to its original point of purchase for repair by a qualified engineer.

49

Opening and tampering with the units may invalidate its guarantee.

- Do not expose the units to extreme and sudden temperature changes, this may lead to rapid changes in forecasts and readings and thereby reduce their accuracy.

SPECIFICATIONS:

Rainfall measuring range

- Total : up to 9999 mm with 1mm increment
("OFL" displayed if outside this range)
- 24-hour : up to 127 mm with 1 mm increment in
the past 2 consecutive hours; or up to
999 mm in the past 24 hour
("OFL" displayed if outside this range)

Data checking interval : every 6 seconds

Transmission range : up to 100 metres

Power Supply:

Rain meter station : 2 x AAA, IEC LR3, 1.5V

Outdoor rain sensor : 2 x AAA, IEC LR3, 1.5V

Battery life cycle : approximately 36 months (Alkaline
batteries recommended)

Dimensions (L x W x H)

Rain meter station : 62.3 x 24.1 x 97.8 mm

Outdoor rain sensor : 144 x 54.6 x 88 mm

LIABILITY DISCLAIMER:

The electrical and electronic wastes contain hazardous substances. Disposal of electronic waste in wild country and/or in unauthorized grounds strongly damages the environment.

Please contact your local or/and regional authorities to retrieve the addresses of legal dumping grounds with selective collection.

All electronic instruments must from now on be recycled. User shall take an active part in the reuse, recycling and recovery of the electrical and electronic waste.

The unrestricted disposal of electronic waste may do harm on public health and the quality of environment.

As stated on the gift box and labeled on the product, reading the "User manual" is highly recommended for the benefit of the user.

This product must however not be thrown in general rubbish

collection points.

The manufacturer and supplier cannot accept any responsibility for any incorrect readings and any consequences that occur should an inaccurate reading take place.

This product is designed for use in the home only as indication of the rainfalls.

This product is not to be used for medical purposes or for public information.

The specifications of this product may change without prior notice.

This product is not a toy. Keep out of the reach of children.

No part of this manual may be reproduced without written authorization of the manufacturer.



R&TTE Directive 1999/5/EC

Summary of the Declaration of Conformity: We hereby declare that this wireless transmission device does comply with the essential requirements of R&TTE Directive 1999/5/EC.