PROFESSIONAL WEATHER STATION

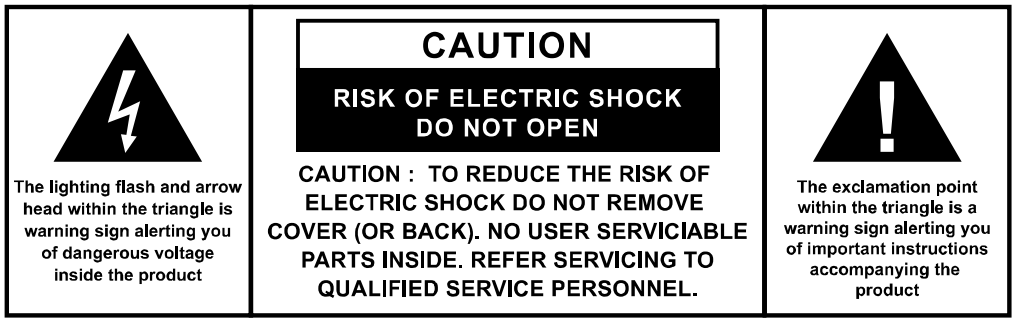
Ref.: SM57PRO

- User's Manual –

IMPORTANT SAFETY WARNINGS

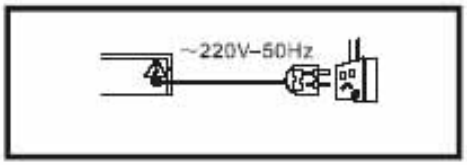
Before starting to use this device, please read carefully and completely the instructions contained in this booklet.

It is recommended to keep together this booklet and the device for future consultation. If this device is to be passed to somebody else, please make sure that the booklet is passed along with the device so that the new user can read it before use.

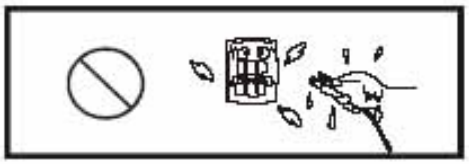


OVERALL SAFETY

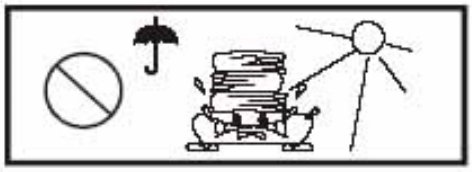
- Make sure the unit is not exposed to rain or a moist environment to avoid any risk of fire or electric shock!
- Please avoid splashing the device with water; no object containing liquid, such as a vase, must be placed on the device.
- This unit is intended for use in temperate climates only.



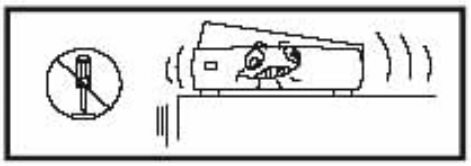
Power: Before plugging into the mains socket, please read the specifications on the label.



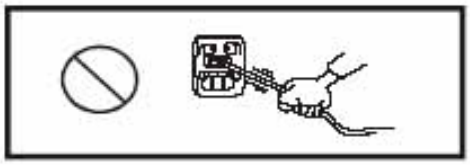
Never handle the power plug with wet hands.



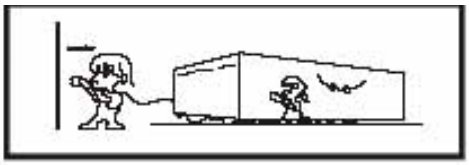
Never place heavy objects on the unit. Avoid direct sunlight.



Never open the unit. Avoid dropping metal objects inside the unit.



Mains plug: Avoid pulling or stepping on it too much, bending or pinching it too tightly.



Unplug the mains plug from the socket when the device is not in use for a long period of time.

ELECTRIC SUPPLY

THE POWER CORD MUST REMAIN EASILY ACCESSIBLE IN ORDER TO BE ABLE TO DISCONNECT THE DEVICE IN CASE OF EMERGENCY.

1. Please unplug the product in case of prolonged non-use.
2. If the supply cable is damaged, it must be replaced by the manufacturer or qualified after-sales personnel to avoid any danger.
3. This product must be connected to an electrical supply 100-240V ~ 50/60Hz.
4. The plus must be accessible after installation.
5. Hold the plug well when you plug the power cord in or out.
6. Please do not put the AC power cord near any heat source equipment.
7. Please do not place any heavy objects on the AC power cord.
8. Please do not overhaul the AC power cord.

IMPORTANT SECURITY INSTRUCTIONS

1. Do not use the unit in places that are extremely hot, cold, dusty or humid.
2. Do not keep the unit in a high humidity area such as a bathroom, kitchen sink or pool. Keep the unit away from heaters, stoves, etc. Never leave the unit in an area exposed to direct sunlight where there could be a considerable rise in temperature.
3. The unit should not be exposed to dripping or splashing, and no objects filled with liquids such as vases, should be placed on the unit.

4. Do not block any ventilation openings. The ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table-cloths, curtains and the like.
5. Install the unit in accordance with the manufacturer's instructions.
6. Do not use attachments/accessories not recommended by the product manufacturer.
7. Power-supply cords should be routed so that they are not likely to be trapped in any way. Also protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the pointers where they exist from the unit.
8. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operation instructions.
9. The mains plug is used as disconnect device. The mains plug of unit should not be obstructed OR should be easily accessed during intended use. To be completely disconnect the power input, the mains plug of unit should be disconnected from the mains.
10. If the unit is not used for a period of time, unplug the power cord.
11. If it is lightening, unplug the power cord to prevent the unit from unnecessary damages.
12. This product should be handled with care to avoid damage or injury.
13. Never open the housing or touch the components inside to avoid the risk of electric shock or burns. If service is required, please get in touch with a qualified technician.
14. Refer all servicing to qualified service personnel in the following cases: the unit does not operate normally or has been damaged, the power cord or plug is damaged, liquids spilled into the unit, any hard object fallen on the unit, the unit has been dropped, the unit has been exposed to rain or moisture.
15. The marking information is located at the back of the unit.
16. Attentions should be drawn to the environmental aspects of batteries disposal.
17. Use the unit in moderate climates.
18. Never insert any object, including your fingers, into the unit.

INTRODUCTION

The **SM57PRO** weather station consists of the following components:

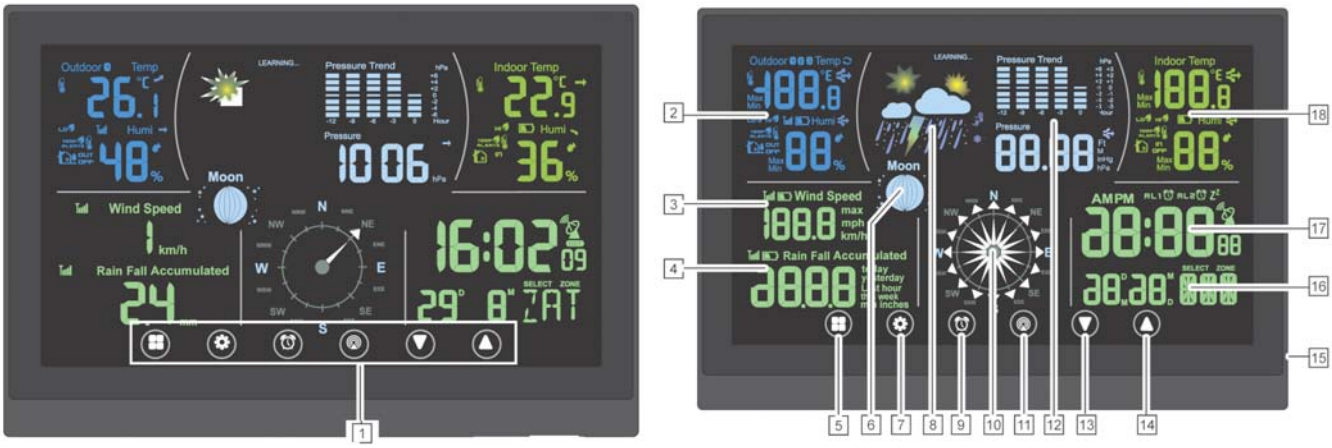
Outdoor wind unit:
The outdoor wind unit has a built-in wind speed meter, wind direction sensor, temperature sensor, humidity sensor and DCF receiver. The measurement data from these sensors is transmitted wirelessly to the display unit. The outdoor wind unit is powered by 4 x AA, 1.5V batteries (not included).
The outdoor wind unit is supplied with mounting materials.

Outdoor rain unit:
The outdoor rain unit has a built-in rain gauge. The measurement data from the sensor is transmitted wirelessly to the display unit. The outdoor rain unit is powered by 2 x AA, 1.5V batteries (not included).

Indoor unit:
The indoor unit receives the measurement data from the outdoor units and also has its own temperature sensor, humidity sensor and air pressure sensor.
The indoor unit is powered by the supplied power adapter and 3 x AAA, 1.5V batteries can be installed as a backup (not included).
All measurement data is displayed on the large colour LCD screen.
When using the adapter, the snooze/light button functions as a dimmer for the backlight in 4 steps. The backlight will remain off when using batteries only. When touching the snooze/light button, the screen will light up for 5 seconds.

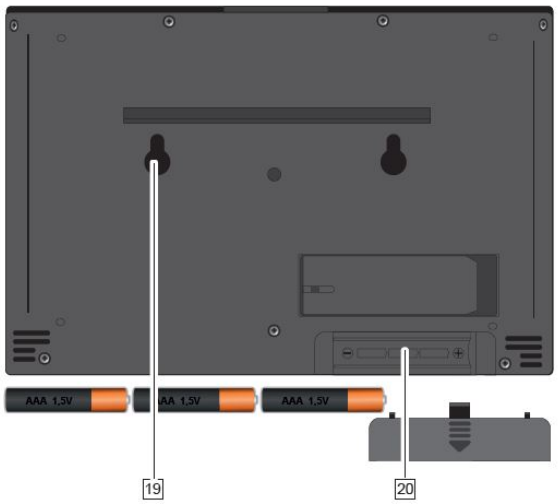
1. OVERVIEW

1.1. Indoor unit



1. Function keys
2. Outside temperature & humidity display
3. Wind speed display
4. Rainfall display
5. "Mode" key
6. Moon phase display
7. "Settings" key
8. Weather forecast display
9. “Alarm clock” key
10. Wind direction display
11. "Channel" key

12. Atmospheric pressure and atmospheric pressure trend animation
13. "Up/+" key
14. "Down/-" key
15. Power adapter connection
16. Day and month display
17. Current time display
18. Indoor temperature & humidity display
19. Hanging slots
20. Battery compartment for 3 x AAA, 1,5V batteries (not included.)



FUNCTION KEYS DEFINITION

Mode key: In normal mode, press mode to view the various functions separately. If the mode key is not pressed for 10 seconds, the display will return to normal mode.

Set key: In normal mode, press set to switch between °C and °F.

Alarm key: press alarm key to activate alarm 1, alarm 2, alarm 1 and 2 or no alarm.

Channel key: press channel key to switch between channel 1, channel 2, channel 3 or scan between channel 1,2, and 3.
Press and hold channel key for 2 seconds to activate reception of outdoor units with new ID. First select the desired channel.

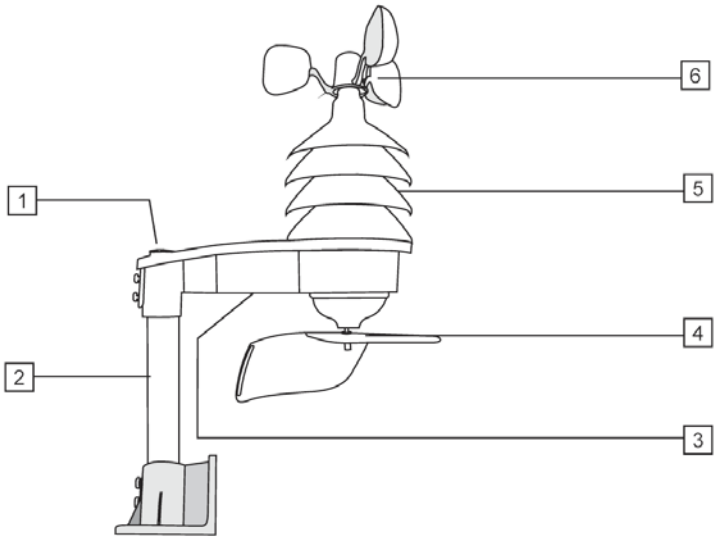
Down key: to switch between rain display in “total”, “today”, “last hour”, “yesterday” and “this week”.

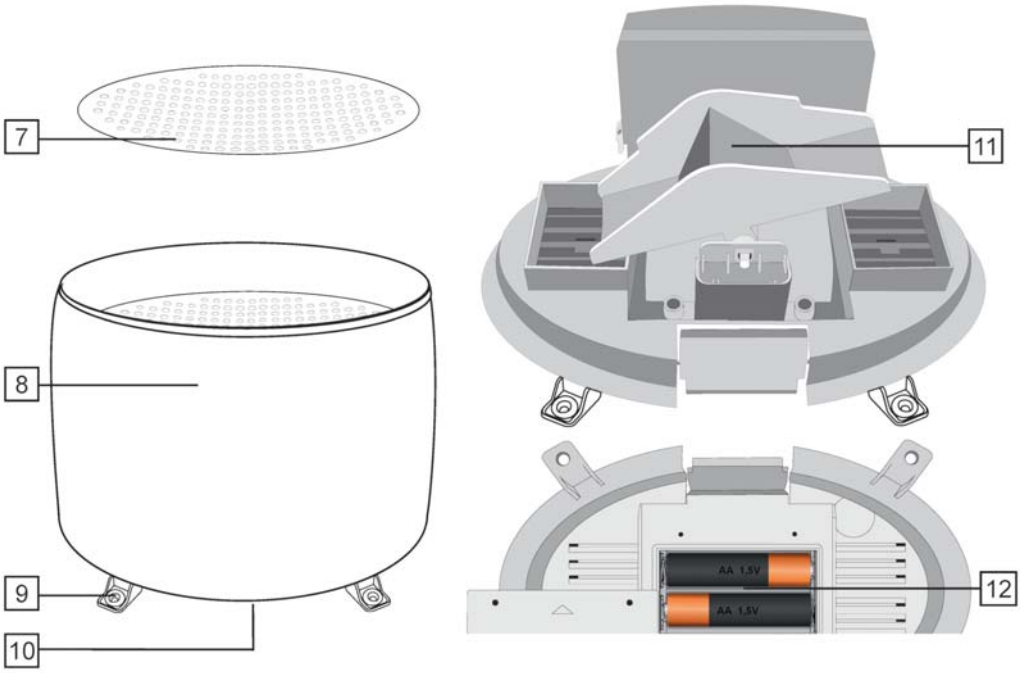
Up key: display of the lowest or highest measured value of the indoor and outdoor temperature and humidity and the maximum measured wind speed

SNOOZE/LIGHT (on the top location): in **normal mode**, when powered by battery, press to light the backlight for 5 seconds. - When powered by DC, the four levels of backlight can be switched cyclically, *the highlight → the medium bright → the low bright → OFF.* - In the noisy mode, press **SNOOZE/LIGHT** to snooze 5 minutes.

1.2. Indoor unit

1. Compass, for northern orientation of the outdoor unit
2. Mast
3. Battery compartment for 4 x AA 1,5V batteries (not included.).
4. Wind direction sensor
5. Location of temperature, humidity sensor and DCF receiver.
6. Wind speed sensor





7. Protective filter for collecting leaves and dirt
8. Rain gauge housing
9. Mounting feet
10. Tab to detach housing
11. Scoops for rain quantity measurement
12. Battery compartment for 2 x AA 1,5V batteries (not included.)

Note:
Due to poor or non-performance of normal alkaline batteries at temperatures around or below 0°C, the use of standard alkaline batteries is not recommended for the outdoor unit.

2. INSTALLATION

2.1. Indoor unit

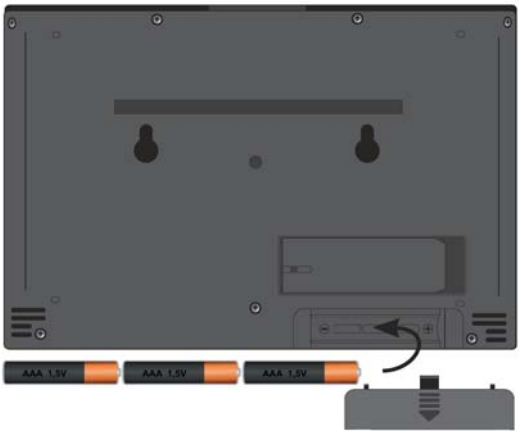
General installation and placement tips:

- Ensure that the ambient temperature around the indoor unit is not affected by lamps, radiators, doors or windows, drafts, etc.
- For hanging use: hang the unit free from obstructions, i.e. not behind a curtain, for example.
- Make sure that the adapter cable cannot lead to falls or tripping. Secure the cable with cable ties if it is too long.

Power supply:
The main power of the indoor unit is provided by the supplied power adapter. Insert the low voltage plug of the adapter into the DC5.0V connection on the right side of the indoor unit and connect the adapter to a 230V socket.

As a backup, to save the measurement data during a possible power failure or if the adapter is accidentally unplugged, 3 pcs 1,5V AAA batteries can be inserted. The light intensity setting will revert to the lowest setting after 5 seconds to increase battery life

1. Open the battery compartment at the back of the indoor unit.
2. Insert the first battery and slide it all the way to the left.
3. Insert the second battery and slide it all the way to the right.
4. Insert the third battery in the middle between the first 2 batteries.
5. Finally, replace the battery cover.



Hang or stand:
The indoor unit can either be placed freestanding on a cabinet or desk (fold out the stand on the back of the indoor unit for this purpose) or the unit can be hung on the wall (see keyhole openings on the back).

2.2. Outdoor unit

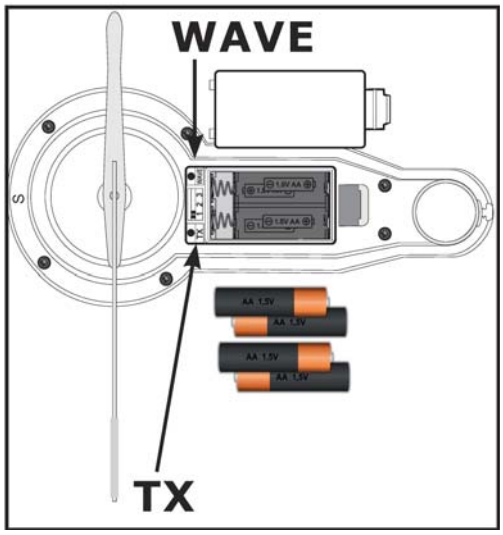
General installation and placement tips:

- First, check that the outdoor units are within reach of the indoor unit before permanently mounting the outdoor units. Keep the distance between the outdoor units and the indoor unit to within 30 meters.
- Ensure that the outdoor units are placed at least 1,5 meters above the ground and freely exposed to the rain and wind.
- In order for the outdoor units to work as accurately as possible, they must stand as horizontal as possible. For the outdoor rain unit, check that the surface is level before mounting.
- To indicate which direction the wind is coming from, the outdoor wind unit must be oriented to the South. See the S designation at the bottom of the outdoor unit for this. Use the compass on the outdoor wind unit to correctly orientate the unit.
- Make sure the outdoor units hang and/or stand freely. The wind speed meter and the wind vane, in particular, should hang in direct wind.
- Find a location where the likelihood of blowing leaves is minimal. Leaves blown into the rain coop can block the rain gauge or affect the measurement results. In any event, we advise you to place the outdoor units in such a way that it is fairly easy to remove any leaves and to replace the batteries.
- Perhaps the outdoor units can be located within reach for a week to try out all functions. Check that everything is functioning properly before placing the outdoor units in their permanent location.

2.3. Outdoor unit

Registration
First register the outdoor units with the indoor unit before permanent placement of the outdoor units. Once the indoor unit batteries are installed, it will search for the outdoor units for the first 5 minutes.
After the 5 minutes, the indoor unit can be manually set to receive. To do this, press the channel button for 2 seconds to set the indoor unit to receive mode.

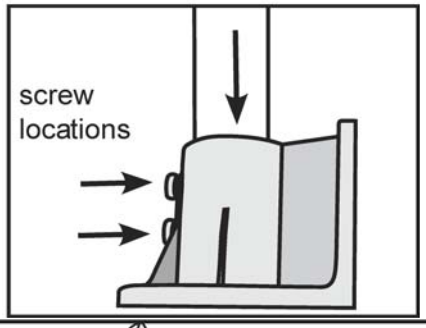
Insert 4 x 1,5V AA batteries in the outdoor wind unit. See diagram. Set the Channel switch to the same channel selected on the indoor unit. Then press the TX key. Check that the indoor unit has received the signal. Press the TX button once more, if necessary. The outdoor temperature and humidity are displayed on the indoor unit via the outdoor wind unit.



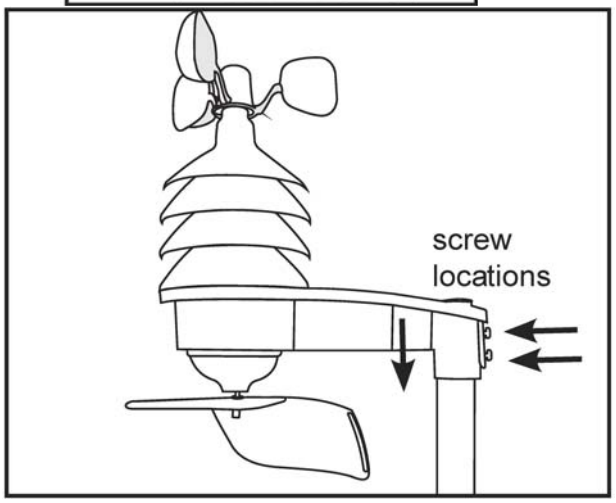
The outdoor wind unit is registered when the information appears on the display.
To turn off the time reception, press the "WAVE" key.

To turn the reception on again, register the outdoor unit once more by briefly removing and reinserting the batteries and repeating the registration procedure

Installation



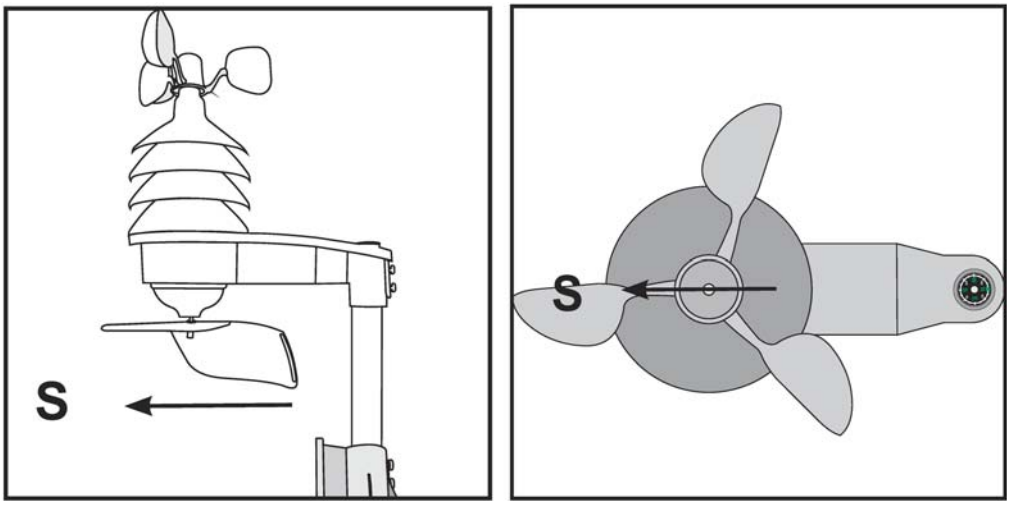
Insert the aluminium pole into the mounting base and fasten it with the screws provided. The mounting base can be mounted on a horizontal or vertical surface. Please note that the outdoor wind unit must still be orientated to the north. Make sure there is enough space to do this adequately. Screw the base to a wooden or stone wall using the supplied screws and plugs.



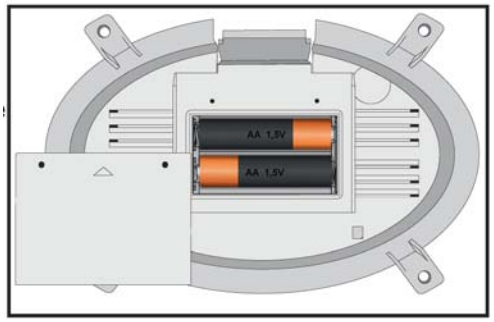
Slide the outdoor wind unit onto the pipe and fasten it with the screws provided.

Orientate the outdoor wind unit using the compass to ensure the correct wind direction.

The wind speed sensor, temperature, humidity, and wind direction part must be south facing. See diagram:



2.4. Outdoor unit



Registration:
Remove the battery compartment screws at the bottom of the rain gauge. Slide the battery cover off the screw holes, and remove the battery cover.
Insert 2 x 1,5V AA batteries in the battery compartment as shown in the diagram:

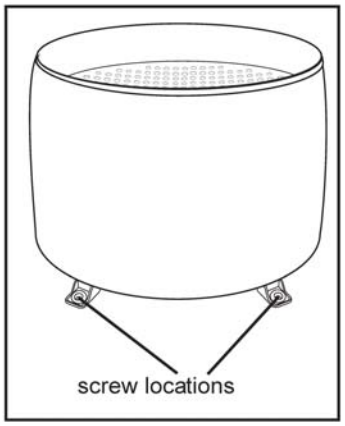
Install the battery within the 5 minute registration time of the indoor unit, or set the indoor unit to receive.
If the indoor unit is set to receive, both the wind and rain unit should also register.

Inserting the batteries is sufficient. As soon as the rain unit transmits, this is detected by the indoor unit and the "—" disappears from the display.

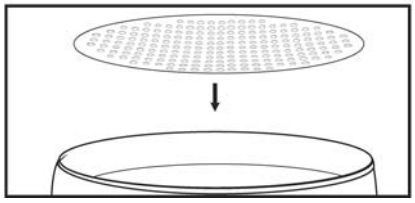
Replace the battery cover and secure it with the screws. This ensures that the batteries do not get wet.

The batteries should be installed before mounting the rain gauge.

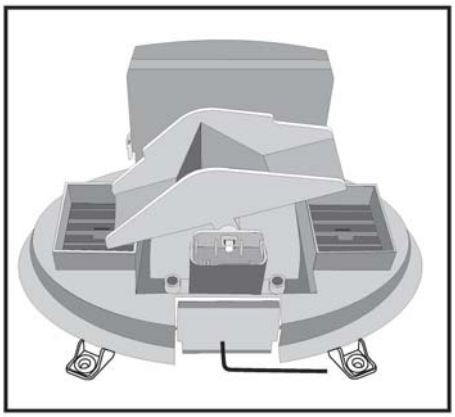
Installation



Place the rain gauge on a horizontal surface where the rain will not be obstructed. Fasten the rain gauge by inserting the screws through the legs. To replace the batteries, the rain gauge must first be unscrewed.



Cleaning



Remove grid plate and clean it. Remove all leaves from the rain gauge housing. Using an Allen key, the cover can be removed by pressing the internal tab and pulling the cover up.
In case of problems, the rain gauge can also be unscrewed.
Then clean the scoop and all holes thoroughly. Replace the cover by clipping in the rear first and then by pressing until it clicks. Check that the cover is secured. Replace the grid plate.

3. BASIC DISPLAY AND SETTINGS

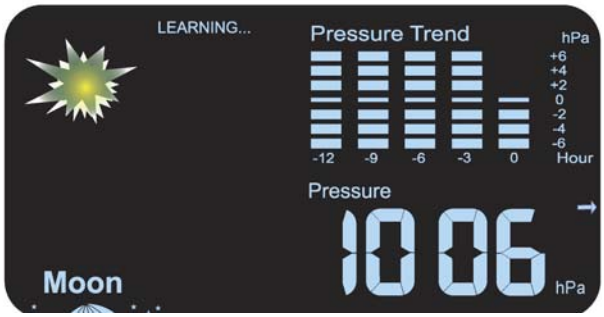
3.1. Indoor temp and humidity

- Indoor temperature and indoor humidity.
- Indoor temperature display in °C or °F.
- Press (S) to switch between °C or °F.
- Indoor humidity display in %.
- Trend display higher, equal, or lower.
- Adjustable temperature high/low alarm.

3.2. Outdoor temp and humidity

- Display of outdoor unit wind channel 1, 2, 3, or alternating display.
- Outdoor temperature and humidity outdoors.
- Outdoor temperature display in °C or °F.
- Press (§) to switch between °C or °F.
- Outdoor humidity display in %.
- Trend display higher, equal, or lower.
- Adjustable temperature high/low alarm.

3.3. Pressure trend and pressure



- Display of atmospheric pressure progress and barometric pressure with forecast by icons.
- View previous 12-hour atmospheric pressure progress and a total difference of 12 hPa.
- Atmospheric pressure value in: Ft, M, inHG, and hPa.
- Atmospheric pressure trend display
- 14-day learning mode.

3.4. Moon

- Moon phase display indication.
- The stars are displayed between 18.00 and 6.00

3.5. Clock

- Time display with date.
- DCF-77 indication time synchronization reception.
- Alarm clock with snooze function.

3.6. Wind

- Wind speed display with reception indication outdoor wind unit.
- Wind direction display. Pointer indicates previous and current wind direction. The wider triangle indicates the current wind direction.

Wind speed is displayed in mph or km/h.

3.7. Rain

- Display amount of precipitation with the following time spans:
    - total
    - today
    - yesterday
    - last hour
    - this week
- Precipitation display in mm or inches.
- Low battery indication of the rain unit.
- Reception signal indication.

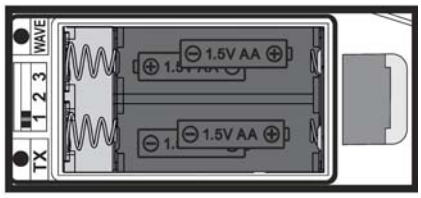
4. SETTING INDOOR UNIT

4.1. Mode

Use the mode button to select the desired adjustment function:
Press Mode for the following settings
Date and time
Alarm time for the alarm clock
Height correction setting
Temperature alarm setting for outdoor and indoor temperature
Rain gauge display extension in mm or inches
Wind speed display extension in km/h or mph

4.2. Date and time

The time and date are automatically received via DCF-77 receiver which receives the time data. This receiver is situated in the wind unit. The wind unit must be switched on for at least 5 minutes to receive the DCF-77 signal. If the channels of the wind unit and the indoor unit are the same, the outdoor temperature will be the first to appear in the display during registration, followed later by the correct time. The wind unit must be switched on for approximately 2 minutes for the signal to be transmitted. Alternatively, you can use the TX button in the battery compartment to transmit manually. The wind unit should already be switched on for several minutes at this point. Once the DCF signal is received, the following icon will appear next to the time: \. If DST appears below this icon (12) then daylight saving time is active (DST - Day Saving Time).



Pressing the WAVE button for a few seconds will disable reception of the DCF signal. Then wait a day and the DCF-77 receive symbol **** will disappear. It is also possible to restart the indoor unit. The receive symbol will then also not appear. The time and date must then be re-set manually.

Zone

Press the Mode key 1 x ||. Date and time setting is displayed Press the Set key for 3 seconds
Select zone starts to flash. Enter the desired value for the DCF time zone using the up ® and down (?) keys. (In the DCF time zone of the Netherlands this is 0) The DCF time takes daylight saving time into account.

Day name language

Press the Set key again ⚙ to continue setting the day in English, German, French, Italian, Dutch, Spanish or Danish. Select the desired language with up ⇧ and down ⇩ keys.

Year

Press the Set key ⚙ again to continue setting the year. Select the desired year with the up ® and down ® keys, **month-day / day month sequence**
Press the Set key # again to continue setting the day or month sequence. Select the desired month-day or day-month indication with up ⇧ and down ⇩ keys.

Month

Press the Set key ⚙ again to continue setting the desired month (1-2-3 to 12). Select the desired year with the up ® and down ® keys the desired month indication, **day**
Press the Set key # again to continue setting the desired day (1-2-3 to 31). Select the desired day with up ⇧ and down ⇩ keys.

12/24 hour display

Press the Set key ⚙ again to continue setting the desired hour format (12 or 24 hours). Select the desired hour format with up ⇧ and down ⇩ keys.

Hour

Press the Set key ⚙ again to continue setting the desired hour Select the desired hour with the up ⇧ and down ⇩ keys.

Minutes

Press the Set key ⚙ again to continue setting the desired minutes. Select the desired minutes with the up ⇧ and down ⇩ keys.

Seconds

Press the Set key⚙ again to continue setting the desired seconds. Select the desired seconds with the up ⇧ and down ⇩ keys.

4.3. Alarm time for the alarm clock

There are two alarm clocks present in this weather station. These can be turned on or off individually with separate wake-up time. With the alarm key the alarms can be activated. When an alarm goes off, it can be turned off with the snooze function. The Snooze key is located on top of the device. The alarm will then stop for 5 minutes and the alarm icon and snooze icon flashes, where after the alarm will sound again. During snooze, the snooze function can be turned off by alarm key activation. During the alarm, it can be turned off by using any other key.
If the alarm is not turned off, it will continue for 3 minutes. The alarm will become progressively louder and then stop.

- **Alarm 1: hour setting**
  Press 2x on the Mode key: Alarm time appears.
  Press the Set key ⚙ for 3 seconds.
  Alarm 1 hour will start to flash. Insert here with the up ⇧ and down ⇩ keys, the desired alarm hour of alarm 1.
- **Alarm 1 : minute setting**
  Press the Set key ⚙ again to continue setting the desired minutes. Select the desired minutes with the up ⇧ and down ⇩ keys.
- **Alarm 2: hours setting**
  Press the Set key ⚙ again to continue setting the desired hour Select the desired hour with the up ⇧ and down ⇩ keys.
- **Alarm 2: minutes setting**
  Press the Set key ⚙ again to continue setting the desired minutes. Select the desired minutes with the up ⇧ and down ⇩ keys.

4.4. Height correction setting atmospheric pressure gauge

Height

Press 3 x on the Mode key: Height setting appears.
Press the Set ⚙ key for 3 seconds.
Height setting will start to flash. Insert here with the up ⇧ and down ⇩ keys the desired height.

4.5. Temperature alarm setting for outdoor and indoor temperature:

- **Outdoor temperature alarm low**
  Press 4 x on the Mode key: Height setting appears press the Set key ⚙ for 3 seconds.
  Outdoor temperature setting low starts to flash. Insert here with the up ⇧ and down ⇩ keys the desired temperature.

- **Outdoor temperature alarm low on or off.**
  Press the Set key ⚙ again to turn the low temperature alarm on or off. Select with the up ⇧ and down ⇩ keys whether the low temperature alarm is on ON or OFF.
- **Outdoor temperature alarm high.**
  Press the Set key ⚙ again to adjust the high temperature setting. Select with the up ⇧ and down ⇩ keys the desired alarm temperature.
- **Outdoor temperature alarm high on or off.**
  Press the Set key ⚙ again to turn the high temperature alarm on or off. Select with the up ⇧ and down ⇩ keys whether the high temperature alarm is OFF or ON.
- **Indoor temperature alarm low.**
  Press the Set key ⚙ again to adjust the low temperature setting. Select with the up ⇧ and down ⇩ keys the desired alarm temperature.
- **Indoor temperature alarm low on or off.**
  Press the Set key ⚙ again to turn the low temperature alarm on or off. Select with the up ⇧ and down ⇩ keys whether the low temperature alarm is OFF or ON.
- **I**ndoor Temperature alarm high
  Press the Set key ⚙ again to adjust the high temperature setting. Select with the up ⇧ and down ⇩ keys the desired alarm temperature.
- **Indoor temperature alarm high on or off.**
  Press the Set key ⚙ again to turn the high temperature alarm on or off. Select with the up ⇧ and down ⇩ keys whether the high temperature alarm is OFF or ON.

4.6. Rain gauge display extension in mm or inches:

Extension setting

Press 5 x on the Mode key: precipitation details appear Press the Set key for 3 seconds. Precipitation extension starts to flash. Insert here with the up ⇧ and down ⇩ keys the desired precipitation extension in (mm or inches).

4.7. Wind speed display extension in km/h or mph:

Extension setting

Press 6 x on the Mode key : wind speed details appear.

Press the Set key ⚙ for 3 seconds.

Wind speed extension starts to flash. Insert here with the up ⇧ and down ⇩ keys the desired wind speed extension in (km/h or mph).

5. GENERAL OPERATION AND FUNCTIONS

5.1. Barometer

The atmospheric pressure value is measured with a barometer. The atmospheric pressure value can be displayed in Ft, M, inHG, and hPa. In the Benelux, the hectoPascal notation is used; although previously air pressure was also expressed as 1 mbar equals 1 hPa. The atmospheric pressure decreases the higher you are above sea level. A rule of thumb is that the atmospheric pressure decreases by 1 hPa per 8 meters. In this weather station menu, the height can be entered so that the air pressure is compensated for and the correct air pressure value is displayed. The height can be adjusted in 10-meter increments between -90 meters and +1990 meters. See 6.4 for this setting.

5.2. Trend indication ↗→↘

If the atmospheric pressure increases or decreases by 2 hPa per hour, the trend

display will point up or down. If the air pressure changes less than 2 hPa per hour, the straight arrow will be displayed.

5.3. Weather forecast by icons

The following icons indicate the respective weather forecast:


SUNNY


PARTIALLY CLOUDY


CLOUDY


RAIN


STORM FORECAST


HEAVY SNOW


ICE FORECAST

5.4. 14-day learning mode

The automatic learning mode will activate after start-up or reset. This appears in the “LEARNING” display. This will stop and disappear after 14 days.

5.5. Atmospheric pressure trend

The animated graph below shows the atmospheric pressure for the past 12 hours.

The weather station must be switched on for at least 12 hours for the correct value. The graph displays differences from +6hPa to -6hPa.
This value cannot be modified.

5.6. Indoor and outdoor temperature

The indoor and outdoor temperature is displayed in the same manner. See 7.7 for outdoor temperature display. The trend arrow indicates the weather course. If the temperature rises or falls by 1 °C, the trend arrow will point up or down respectively. If the temperature change remains below 1 °C for an hour, the trend arrow remains straight. ↗→↘

5.7. Indoor and outdoor humidity

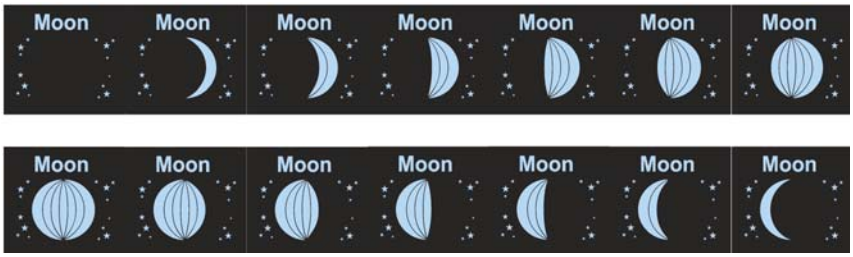
Indoor and outdoor humidity is displayed in the same manner. See 7.6 for indoor humidity display. The trend arrow indicates the weather course. If the humidity rises or falls by 5%, the trend arrow will point up or down respectively. If the humidity does not change by more than 5% within an hour, the trend arrow will remain straight.

↗→↘

5.8. Maximum and minimum temperature and humidity value

In these screens, the maximum and minimum measured temperature and humidity value can be displayed. To do this, press the up key ⇧. Max appears in the display and the maximum measured temperatures and humidity are shown. Press the up key again ⇧. Min appears in the display and the minimum measured temperature and humidity is shown. Hold up key ⇧ for at least 2 seconds to clear min. and max indoor and outdoor temperature and humidity. Note: the maximum wind speed is also cleared. Indoor and outdoor values are cleared simultaneously.

5.9. Moon phase display



The moon phase display is linked to the date, year, and time.
The stars are displayed between 18.00 and 6.00. The stars disappear between 6.00 and 18.00.
The moon goes from no moon to full moon and then back to no moon. The moon is divided into 7 segments.

5.10. Wind speed

The current wind speed is displayed. The maximum wind speed is indicated by pressing the up key ⇧. See 7.8 for clearing the maximum wind speed. The wind speed is displayed in mph or kmh.

5.11. Wind direction

Wind direction display. The pointer indicates previous and current wind direction.
The wider triangle indicates the current wind direction.
The wind rose consists of 16 wind directions with an intermediate space of 22.5°.

Ensure that the wind unit is correctly aligned.

5.12. Rain meter

The rain gauge displays the total rainfall by default. With the down key ⇩ you can choose between today, past hour, yesterday and this week. After 10 seconds, the display changes back to total fallen precipitation. Hold the down key ⇩ to clear the precipitation value.

6. MAINTENANCE

For easy access to the outdoor units to carry out minor maintenance or to replace the batteries, it is advisable to place the outdoor units in an accessible place, but still as far as possible in the wind or rain.

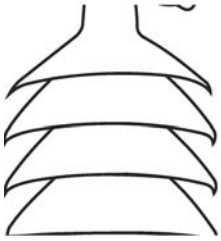
6.1. Rain meter

The rain unit housing can be undipped from the bottom centre, and the inside of the rain gauge can then be cleaned. Use a soft long-bristle brush for this.

Clean the collection tray and remove any leaves. Place it back on the rain gauge (note the 2 protruding tabs on the back) and press the housing onto the rain gauge again until a mechanical "click" is heard.

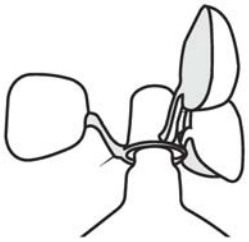
6.2. Outdoor temperature and humidity sensor

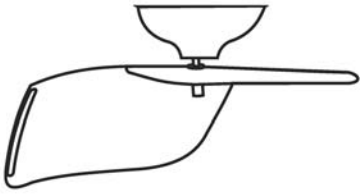
Blow the openings of the sensor housing clean and use a long-bristle soft brush to clean the rain slats. DO NOT use WATER but only a damp cloth.



6.3. Wind vane and windmill scoops

Wipe these parts with a slightly damp cloth.
Check that the bearings still rotate smoothly at the same time.





7. USE INDOOR UNIT WITH BATTERIES

The indoor unit also runs on batteries without an adapter. This will then run out faster than when using an adapter.

The display background will not illuminate, but when the buttons are pressed the background lighting will come on for 5 seconds. The light can then no longer be dimmed.

8. RECEPTION FUNCTION

After installing the batteries and/or plugging in the power adapter connected to the mains, the indoor unit will begin receiving signals from the outdoor units for 5 minutes. The first to be received by the indoor unit will be seen as the correct outdoor unit and will remember the code of the outdoor unit. Check that it is the correct outdoor unit. After the 5 minutes, the indoor unit will stop receiving and will only display the value of the outdoor unit received during this process.
To switch reception on again, press the channel key for at least 2 seconds. To turn off reception, press the channel key again for 2 seconds.

9. SPECIFICATIONS

INDOOR-UNIT

Temperature

Measurement range:	-9.9°C ~ 50°C ('LO' or 'HI' when out of range) 0.1 °c
Resolution:	20°C - 24°C = ±1°C
Accuracy:	0°C - 20°C en 24°C - 40°C = ±2°C
	40°C - 50°C = ±3°C
Humidity:	1 % ~ 99% RH (if out of range, lower then the display will show 1%, higher the display will show 99%)
Resolution:	1% RH
Accuracy	40% - 80% = ±5%, others = ±8%
Air pressure:	800 ~ 1100hPa
Resolution:	1hPa
Measure time:	Every hour
High correction:	-90meter ~ 1990meter
Alarm duration:	180 seconds
Snooze duration:	5 minutes
High/low alarm	outdoor temperature:
	low default 0°C (-50°C~10°C)
	high default 35°C (28°C~70°C)
	indoor temperature:
	low default 20°C (0°O23°C)
	high default 28°C (26°O50°C)
Power supply	3 x AAA 1,5V batteries (NOT INCLUDED)
	Adapter:
	Input voltage: 100-240VAC
	Output voltage constant: 5.0V
	Output current constant: 0.3A
Dimensions	191.6x127x16 mm

OUTDOOR-UNIT

Temperature:

Measurement range:	-50°C ~ 70°C (*L0' or 'HI' when out of range)
Resolution:	0.1°C
Accuracy:	20°C - 24°C = ± 1°C
	0°C - 20°C en 24°C - 40°C = ± 2°C
	40°C - 50°C = ± 3°C
Humidity:	1% ~ 99% RH (if out of range, lower then the display will show 1%, higher the display will show 99%)
Resolution:	1% RH
Accuracy:	40% - 80% = ± 5%
	Others = ± 8%
Wind speed	O km/u ~ 127.5 km/u
Resolution:	1 km/u
Power supply	4 x AAA 1,5V batteries (NOT INCLUDED)
Dimensions	105x279x393 mm

OUTDOOR RAIN-UNIT

RAINFALL

Measurement range:	0-6000mm (“---“ if outside this range)
Accuracy	+/- 10**%**
Resolution:	0,1mm upon precipitation <1000mm 1mm upon precipitation >1000mm
Power supply	2 x AA 1,5V batteries (NOT INCLUDED)
Dimensions	166x105.5x118 mm

Radio Control

Transmit frequency	434.025 MHz
Transmit interval	Wind (55sec.) / rain (90sec.)
Range	30 meters
Max. radiofrequency power	3.21dBm

PRECAUTIONS ON THE USE OF BATTERIES

- Discard a used battery in nature or garbage pollutes and prevents the recovery of recyclable materials.

It is therefore important **<u>to limit consumption of batteries</u>** and follow these guidelines:

- Focus on alkaline batteries (that last longer than the saline batteries) and when possible, rechargeable batteries
- Deposit batteries and accumulators in specific containers arranged among traders.

For example, metals will be valued and polluted the environment because they contain heavy metals hazardous to health and the environment primarily (cadmium and nickel)

- The piles must installation by respecting the polarity indicated on the apparatus and the pile.

An incorrect positioning can is to damage the apparatus, is to cause escapes on the level of the pile, is to the extreme to cause a fire or the explosion of the pile.

- To ensure proper operation, the batteries must be in good condition. In case of abnormality in the functioning of the device, put fresh batteries
- Never attempt to recharge non-rechargeable batteries. They could run, warm up, causing a fire or explosion.
- Replace all batteries at the same time. Never mix zinc batteries with alkaline batteries or rechargeable batteries
- The batteries must be removed from the device
- Also, remove the batteries from your device if you do not use it for a long time, if the batteries may leak and cause damage.
- Never try to short-circuit the battery terminals
- Never dispose of batteries in fire, they might explode
- Charging of batteries is to be performed by an adult.
- Remove batteries from the device before reloading.
- We recommend an adult to supervise children when they change the batteries so that these instructions are complied with or to make himself the replacement of batteries.
- If a battery is swallowed, immediately consult a doctor or poison control center nearest you. Do not forget to carry the product with you.

This logo present on the product indicates that this device (which is considered as waste) is registered in the European Directive 2012/19/EU regarding Waste Electrical and Electronic Equipment (WEEE). This directive states that old household electrical appliances must be collected separately in order to optimize the recovery and recycling of the materials they contain, and thus reduce their impact on the environment and human health.

As end user, your role is of great importance in the reuse, recycling and other forms of recovery of this Electrical and Electronic Equipment.

You have to use the collection systems provided for this purpose.

CE

Déclaration de Conformité UE

Nous, Société INOVALLEY, Z.A La Chapelle Saint-Antoine, 37 rue Ampère, 95300 Ennery, France, déclarons sous notre seule responsabilité que le produit:

Marque : INOVALLEY Nom commercial : STATION METEO PROFESSIONNELLE

Type: SM57PRO - Modèle: YT60160 (station) + R46 (pluviomètre) + R45 (anémomètre) + Adaptateur secteur : ICY0500-0300

auquel se réfère cette déclaration est conforme aux exigences essentielles et aux autres dispositions de
- la Directive Equipement Radio (RED) 2014/53/EU,
- de la directive pour Compatibilité Electro-Magnétique EMC 2014/30/UE,
- et de la Directive Basse Tension 2014/35/UE qui lui sont applicables.

Le produit est en conformité avec les normes et/ou autres documents normatifs suivants :

STATION (YT60160) + PLUVIOMETRE (R46) + ANEMOMETRE (R45)

RED	Draft ETSI EN 301 489-1 V2.2.1 (2019-03)	ETSI EN 301 489-3 V2.1.1 (2019-03)	ETSI EN 300 220-1 V3.1.1 (2017-02)
	ETSI EN 300 220-2 V3.1.1 (2017-02)	ETSI EN 300 220-2 V2.1.1 (2017-02)	EN 62479 :2010
	EN 61000-3-2 :2014 Class A	EN 61000-3-3 :2013	

ADAPTATEUR SECTEUR

EMC	EN 55014-1 :2006+A1:2009+A2 :2011	EN 55014-2 :2015
	EN 61000-3-2:2014	EN 61000-3-3 :2013

LVD EN 60335-1 :2012/A11 :2014 EN 60335-2-29 :2004/A2 :2010 EN 62233 :2008

ENNERY, le 2 Février 2021

INOVALLEY

J.I THIRY (Président)