

Bedienungsanleitung
Instruction manual
Mode d'emploi
Instrucciones de uso
Gebruiksaanwijzing
Istruzioni per l'uso

TFA®



Instruction manuals
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Kat. Nr. 35.1155

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Fig. 1

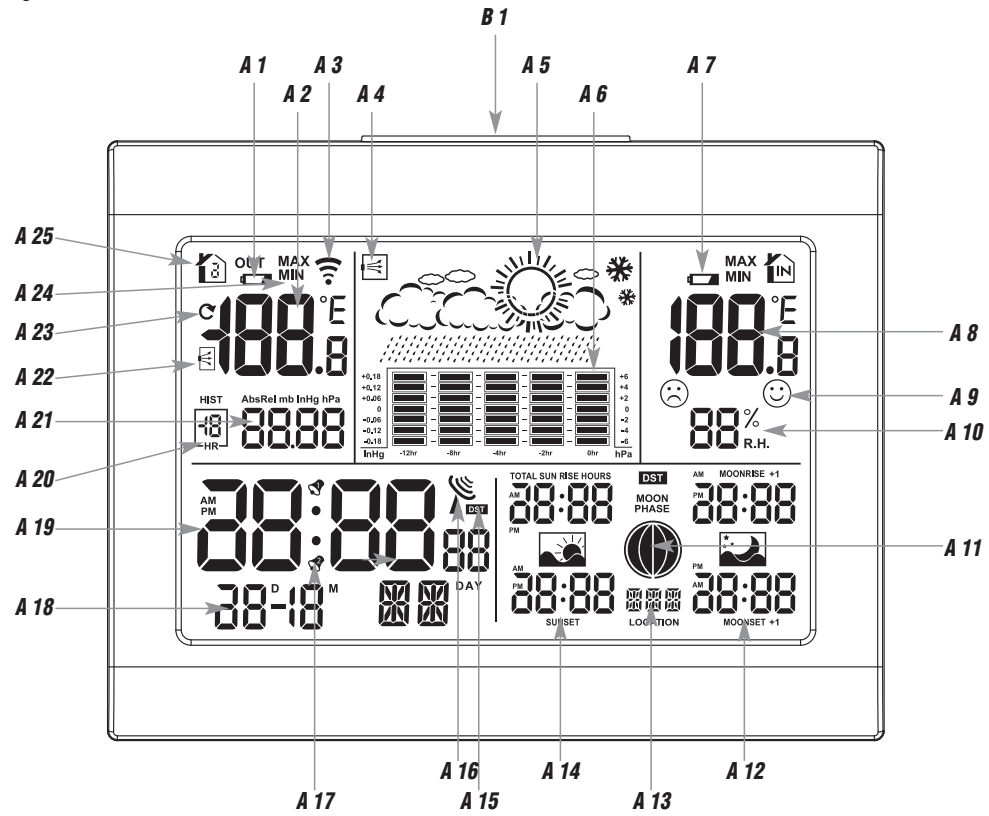
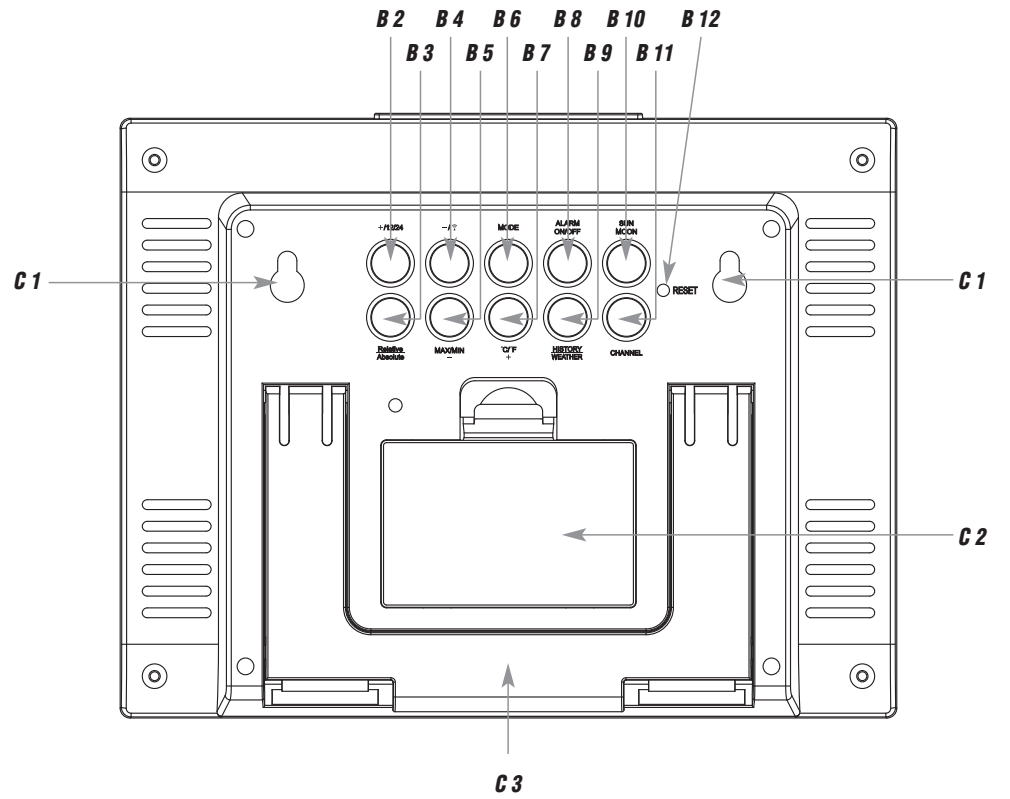


Fig. 2



HORIZON – Wireless weather station

Thank you for choosing this instrument from TFA.

1. Before you use this product

- **Please make sure you read the instruction manual carefully.**
This information will help you to familiarize yourself with your new device, to learn all of its functions and parts, to find out important details about its first use and how to operate it and to get advice in the event of a malfunction.
- **Following and respecting the instructions in your manual will prevent damage to your instrument and loss of your statutory rights arising from defects due to incorrect use.**
- **We shall not be liable for any damage occurring as a result of non-following of these instructions. Likewise, we take no responsibility for any incorrect readings or for any consequences resulting from them.**
- **Please pay particular attention to the safety notices!**
- **Please keep this instruction manual safe for future reference.**

2. Delivery contents

- Weather station (base station)
- Outdoor transmitter (Cat.-No. 30.3242.02)
- Instruction manual

3. Range of application and all the benefits of your new instrument at a glance

- Outdoor temperature wireless (433 MHz), distance range up to 60 m (open field), with trend indicator
- Expandable up to 3 outdoor transmitters, also for the temperature control of remote rooms, e.g. children's room, wine-cellar etc.
- Indoor temperature and humidity with comfort level indicator
- Maximum/ minimum values
- Weather forecast with symbols and atmospheric pressure trend
- Absolute or relative atmospheric pressure
- Bar graph indication of atmospheric pressure for the last 12 hours
- Radio-controlled clock with date and weekday
- Alarm with two alarm times and snooze function
- Time of rising and setting of sun and moon (150 European cities on call)
- Indication of the actual moon phase
- Backlight
- Wall mounting or table stand

HORIZON – Wireless weather station**4. For your safety**

- This product is exclusively intended for the range of application described above. It should only be used as described within these instructions.
- Unauthorized repairs, alterations or changes to the product are prohibited.



Caution!
Risk of injury:

- Keep these devices and the batteries out of reach of children.
- Small parts can be swallowed by children (under three years old).
- Batteries contain harmful acids and may be hazardous if swallowed. If a battery is swallowed, this can lead to serious internal burns and death within two hours. If you suspect a battery could have been swallowed or otherwise caught in the body, seek medical help immediately.
- Batteries must not be thrown into a fire, short-circuited, taken apart or recharged. **Risk of explosion!**
- Low batteries should be changed as soon as possible to prevent damage caused by leaking.
- Never use a combination of old and new batteries together, nor batteries of different types.
- Avoid contact with skin, eyes and mucous membranes when handling leaking batteries. In case of contact, immediately rinse the affected areas with water and consult a doctor.



Important information on product safety!

- Do not expose the device to extreme temperatures, vibrations or shocks. Protect it from moisture.
- The outdoor transmitter is splash proof, but not watertight. When placed outdoors, choose a dry place for the transmitter.

5. Elements**Base station (Receiver)****A: LCD display (Fig. 1):**

- | | |
|--|--|
| A 1: Battery symbol for the transmitter | A 2: Outdoor temperature |
| A 3: Reception symbol for the transmitter | A 4: Atmospheric pressure trend |
| A 5: Weather forecast with symbols | |
| A 6: Bar graph indication of atmospheric pressure for the last 12 hours | |
| A 7: Battery symbol for the base station | A 8: Indoor temperature |

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- A 9:** Comfort level indicator of indoor climate
A 11: Moon phase
A 13: Location
A 15: Daylight Saving Time symbol
A 17: Alarm symbol 1+2
A 19: Time with seconds
A 21: Absolute or relative atmospheric pressure
A 23: Circle symbol for the alternating channel
A 25: Channel number

B: Buttons (Fig. 1+2):

- B 1:** **SNOOZE/LIGHT** button
B 3: **Relative/Absolute** button
B 5: **MAX/MIN/-** button
B 7: **°C/°F/+** button
B 9: **HISTORY/WEATHER** button
B 11: **CHANNEL** button

C: Housing (Fig. 2):

- C 1:** Wall mounting holes
C 3: Stand (fold out)

D: Transmitter (Fig. 3):

- D 1:** **°C/°F** button
D 3: Wall mounting hole
D 5: Battery compartment
D 7: Radio symbol channel 1,2,3
D 9: Transmission indication LED
D 11: Transmission signal

- A 10:** Indoor humidity
A 12: Moonrise/moonset time
A 14: Sunrise/Sunset time
A 16: DCF reception icon
A 18: Date and weekday
A 20: History values of atmospheric pressure
A 22: Outdoor temperature tendency
A 24: Symbol for MAX/MIN

- B 2:** **+12/24** button
B 4: **-/☰** button
B 6: **MODE** button
B 8: **ALARM ON/OFF** button
B 10: **SUN MOON** button
B 12: **RESET** button

- C 2:** Battery compartment

- D 2:** **TX** button
D 4: **1 2 3** switch for channel selection
D 6: Stand
D 8: Outdoor temperature display
D 10: Battery symbol for the transmitter

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6. Getting started**6.1 Insert the batteries**

- Remove the protective films from the display of the base station and the transmitter.
- Open the battery compartment of the transmitter and receiver and place both instruments on a desk with a distance of approximately 1.5 meter. Avoid being close to possible sources of interference such as electronic devices and radio equipment.
- Insert at first two new batteries 1,5 V AAA in the battery compartment of the transmitter and immediately afterwards three new batteries 1,5 V AAA in the battery compartment of the base station. Make sure the polarities are correct.
- After a successful installation close the battery compartments carefully.

6.2 Weather symbol setting

- The device will alert you with a beep and all segments will be displayed for a short moment.
- After batteries were inserted or when holding **HISTORY/WEATHER** button in normal mode for 3 seconds, the weather symbol will be flashing for 20 seconds. Enter the actual weather during this time by pressing the **MAX/MIN/-** or **°C/°F/+** button.
- Press the **HISTORY/WEATHER** button to confirm the setting.

6.3 Reception of outdoor temperature

- After the batteries are inserted, the outdoor values will be transmitted to the base station. The reception symbol for the transmitter flashes.
- If the reception of the outdoor values fails, “- -” appears on the base station display. Check the batteries and try it again. Check if there is any source of interference.
- You can also start the outdoor transmitter search manually later on (for example when the outdoor transmitter is lost or the batteries are changed). Press and hold the **CHANNEL** button for three seconds. The last registered transmitter (channel) will be canceled.
- Press the **TX** button on the outdoor transmitter. The transmission of the outdoor data takes place immediately and a successful reception will be confirmed by a beep tone of the base station.

HORIZON – Wireless weather station**6.4 Radio-controlled time reception**

- After 3 minutes the clock will then scan the DCF (radio-controlled clock) frequency signal. The DCF reception symbol will be flashing. When the time code is successfully received after 3-10 minutes, the radio-controlled time, the date, the day of the week and the DCF symbol will be shown steadily on the display. The clock automatically scans the time signal at 1 a.m., 2 a.m., 3 a.m. and 4 a.m. every day to maintain accurate timing. If the reception fails, it will repeat again at 5.00 a.m. and 6.00 a.m. (less disturbances).
- You can also start the initialization manually. Press and hold the **-/** button for 3 seconds. The DCF reception symbol will be flashing.
- Hold the **-/** button for 3 seconds again to stop scanning the DCF time signal. The DCF reception symbol disappears.
- If the clock cannot detect the DCF-signal (e.g. due to interference, transmitting distance, etc.), the time can be set manually. The clock will then work as a normal quartz clock. (see: Setting of the clock, calendar and location).

6.5 Note on radio-controlled time

The time base for the radio-controlled time is a caesium atomic clock operated by the Physikalisch Technische Bundesanstalt based in Braunschweig (Brunswick), Germany. It has a time deviation of less than one second in one million years. The time is coded and transmitted from Mainflingen near Frankfurt via the frequency signal DCF-77 (77.5 kHz) and has a transmitting range of approximately 1,500 km. Your radio clock receives the signal, converts it and always shows the exact time. The adjustment to Daylight Saving Time (summer/winter time) is automatic. In Daylight Saving Time DST is shown on the display. The reception quality depends mainly on geographic location. Normally there should be no reception problems within a 1,500 km radius around Frankfurt.

Therefore, please note the following steps:

- The recommended distance to any interfering sources like computer screens or TV sets is at least 1.5 - 2 meters.
- Within concrete walls (reinforced with steel) such as basements, the received signal is naturally weakened. In extreme cases, please place the unit close to a window to improve reception.
- During night-time, the atmospheric interference is usually less severe and reception is possible in most cases. A single daily reception is adequate to keep the accuracy deviation under 1 second.

7. Operation**• Important:**

Buttons will not function while scanning DCF or outdoor temperature signal unless they are well received or stopped manually.

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- During the operation, all successful settings will be confirmed by a brief beep tone.
- The device will automatically quit the setting mode if no button is pressed for 15 seconds.
- Press and hold the **+12/24** or **-/** button in setting mode for fast mode.

7.1 Setting of the clock, calendar and location

- Press and hold the **MODE** button for 3 seconds. The time zone correction (00 default) flashes on the display. The time zone correction is needed for countries where the DCF signal can be received but the time zone is different from the DCF time (e.g. +1=one hour plus). Press the **+12/24** or **-/** button to make the time zone correction (+12/-12).
- Press the **MODE** button to make the settings in the following sequence: Hours, minutes, seconds, year, month, day, day-of-week language, country and city. Press the **+12/24** or **-/** button to adjust the settings.
- Day-of-week language: German (GE), French (FR), Spanish (ES), Italian (IT), Dutch (NE), Danish (DA), Russian (RU) and English (EN).
- For the selection of your location please see the included table at the end of the manual.
- The manually set time is overwritten once the DCF time signal is successfully received.

7.1.1 12 or 24 hour system

- Press the **+12/24** button in normal mode to choose 12 HR or 24 HR system. In the 12 HR system AM or PM (after 12 o'clock) appears on the display.

8. Alarm clock function

- You can select your respective alarm by pressing the **MODE** button:
 1. Alarm 1
 2. Alarm 2
- Set the alarm time in the respective alarm mode. Hold the **MODE** button for 3 seconds. The hour digits flash. Press the **+12/24** or **-/** button to set the desired time. Confirm with the **MODE** button. Set the minutes in the same way.
- To activate and deactivate the alarm function press the **ALARM ON/OFF** button in the respective alarm mode. "on" or "oF" appears on the display next to the alarm time.
- When the alarm is activated, the alarm starts to ring when the set alarm time is reached.
- Press any button (except **SNOOZE/LIGHT**) and the alarm will stop.
- If the alarm is not stopped manually, the ascending alarm tone automatically turns off after two minutes and it will be reactivated at the same set time on the following day.

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- When the alarm rings, press the **SNOOZE/LIGHT** button and the snooze function is activated. The backlight turns on for a short period.
- The alarm symbol flashes.
- The alarm will be interrupted for 5 minutes.

9. Thermometer and hygrometer**9.1 Display change °C/°F**

- Press the **°C/°F/+** button to select the temperature display of the base station in °C (Celsius) or °F (Fahrenheit) as the temperature unit.
- Press the **°C/°F** button on the transmitter to change the temperature unit on the sensor display from °C to °F.

9.2 Trend arrow

- The trend arrow on the display will show if the outdoor temperature is increasing, steady or decreasing.

9.3 Comfort level indicator of indoor climate

- On the display appears a smiley to indicate the comfort level:

	< 40 % DRY	40 - 60 % COMFORT	> 60 % HUMID
< 20 °C	☹	/	☹
20 -26 °C	☹	☺	☹
> 26 °C	☹	/	☹

9.4 Maximum/Minimum function

- Press the **MAX/MIN/-** button to show the maximum (MAX) values of temperature and humidity of the indoor transmitter and outdoor temperature. Press the **MAX/MIN/-** button again to show minimum (MIN) values.
- If you press and hold the **MAX/MIN/-** button for 3 seconds, the values are deleted and reset to the actual value.

HORIZON – Wireless weather station**10. Atmospheric pressure****10.1 Weather forecast symbols**

- There are 5 different weather symbols (sunny, slightly cloudy, cloudy, rainy, heavy rain) and 3 different symbols for the trend of atmospheric pressure (increasing, steady, decreasing). A snow crystal is shown if rain is forecasted and the outdoor temperature is under 0°C.
- The weather forecast relates to a range of 12 to 24 hours and indicates only a general weather trend. For example, if the current weather is cloudy and the rain icon is displayed, it does not mean the product is faulty because it is not raining. It simply means that the air pressure has dropped and the weather is expected to get worse but not necessarily rainy.

10.2 Absolute and relative atmospheric pressure

- Press the **Relative/Absolute** button to select Absolute (“Abs”) or Relative (“Rel”) pressure display.
- Absolute pressure is the actual atmospheric pressure measured by the main unit.
- The relative atmospheric pressure is referred to the sea level’s pressure and has to be adjusted first to your local altitude. Ask for the current relative atmospheric pressure of your home area (local weather service, www). Hold the **Relative/Absolute** button for 3 seconds. Press **MAX/MIN/-** or **°C/°F/+** button to adjust the respective value. Confirm the setting with the **Relative/Absolute** button.
- Press the **HISTORY/WEATHER** button to view the past 12 hours barometric pressure history. The hour is indicated on the display (0, -1, -2...-12).
- Press and hold the **°C/°F/+** button for three seconds to select inHg or mb / hPa as the unit for barometric pressure.

10.3 Development of atmospheric pressure

- The bar graph indication of atmospheric pressure shows the last 12 hours.

11. Sun and moon**11.1 Sunrise/sunset and moonrise/moonset time**

- After setting the local country and the city in the setting mode (see 7.1), the main unit calculates the time for the sunrise/sunset and moonrise/moonset.
- Press the **SUN MOON** button to display the day length.

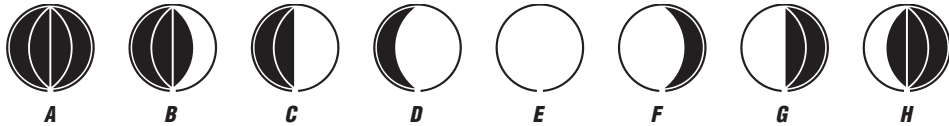
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- Hold the **SUN MOON** button for 3 seconds to enter the quick checking mode. The country digits blink and you can select your setting by the **+ / 12 / 24** or **- /** button. Enter city, year, month and day which you would like to check by pressing the **SUN MOON** button. Press the **+ / 12 / 24** or **- /** button to adjust the settings. Confirm with the **SUN MOON** button.
- The location digits keep flashing to indicate the main unit is still in quick checking mode. Press the **SUN MOON** button to return to normal mode.
- The instrument will quit the quick checking mode and return to the home location if there is no button used within 15 seconds.
- If moonrise or moonset occur at the next day “MOONRISE +1” or “MOONSET +1” will be displayed.
- If there is no moonrise or moonset on that day, “-:-” will be displayed.

11.2 Moon phase

- The moon phase of each day is shown on the display:

**A:** New Moon**B:** Waxing Crescent**C:** First Quarter**D:** Waxing Gibbous**E:** Full Moon**F:** Waning Gibbous**G:** Last Quarter**H:** Waning Crescent**12. Backlight**





- Press the **SNOOZE/LIGHT** button. The backlight turns on for 3 seconds.

13. Additional outdoor transmitters

- For having more than one external transmitter, select different channels for each sensor with the switch **1 2 3**. The new transmitter will be received automatically by the base station.
- The temperature measured by the sensor is shown on the display of the base station. If you have installed more than one transmitter, press the **CHANNEL** button to change between the outdoor transmitters.

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- You can also choose an alternating channel display. Press the **CHANNEL** button. After the last registered channel a circle symbol will appear (display  for channel 1,  for channel 2 or  for channel 3 and  for alternating channel).
- To cancel an unused channel hold the **CHANNEL** button for 3 seconds. If a new channel is received it will be automatically registered again.

14. Positioning and mounting of the base station and the transmitter

- When placed outdoors, choose a shady and dry place for the transmitter. Direct sunlight may trigger incorrect measurement and continuous humidity damages the electronic components needlessly.
- Place the base station in any room of the house. Make sure to avoid the vicinity of any source of interference such as computer screens, TV sets or solid metal objects.
- Once the desired location is chosen, check whether the transmission from the transmitter to the base station is possible (transmission range of up to 60m in open areas). Within solid walls, especially ones with metal parts, the transmission range can be reduced considerably.
- If necessary choose another position for the outdoor transmitter and/or receiver.
- Is the transmission successfully, you can wall mount the base station and the outdoor transmitter with the suspension device.

15. Care and maintenance

- Clean the devices with a soft damp cloth. Do not use solvents or scouring agents. Protect it from moisture.
- Remove the batteries from all devices if you do not use the products for a long period of time.
- Store the devices in a dry place.

15.1 Battery replacement

- As soon as the battery symbol will appear on the display of the base station beside the outdoor temperature or on the display of the outdoor transmitter, change the batteries of the outdoor transmitter.
- Change the batteries of the base station, when the battery symbol appears on the indoor values display.
- **Please note:**
When the batteries are changed, the contact between the transmitter and the receiver must be restored – so always insert new batteries into both devices or start the manual search for the transmitter.

HORIZON – Wireless weather station**16. Troubleshooting**

Problem	Solution
No indication on the base station/transmitter	<ul style="list-style-type: none"> → Ensure the batteries' polarities are correct → Change the batteries
No transmitter reception Display "----" for channel 1/2/3	<ul style="list-style-type: none"> → No transmitter installed → Check the outdoor transmitter's batteries (do not use rechargeable batteries!) → Restart the transmitter and the base station according to the manual → Start the outdoor transmitter manual search → Choose another place for the outdoor transmitter and/or the base station → Reduce the distance between the outdoor transmitter and the base station → Check if there is any source of interference
No DCF reception	<ul style="list-style-type: none"> → Press and hold the button for three seconds and start the initialisation manually → Wait for an attempt reception during the night → Choose another place for your product → Set the clock manually → Check if there is any source of interference → Restart the instrument according to the manual
Incorrect indication	<ul style="list-style-type: none"> → Press the RESET button → Change the batteries

17. Waste disposal

This product and its packaging have been manufactured using high-grade materials and components which can be recycled and reused. This reduces waste and protects the environment.

Dispose of the packaging in an environmentally friendly manner using the collection systems that have been set up.

**Disposal of the electrical device**

Remove non-permanently installed batteries and rechargeable batteries from the device and dispose of them separately. This product is labelled in accordance with the EU Waste Electrical and Electronic Equipment Directive (WEEE).

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This product must not be disposed of in ordinary household waste. As a consumer, you are required to take end-of-life devices to a designated collection point for the disposal of electrical and electronic equipment, in order to ensure environmentally-compatible disposal. The return service is free of charge. Observe the current regulations in place!

**Disposal of the batteries**

Never dispose of empty batteries and rechargeable batteries with ordinary household waste. They contain pollutants which, if improperly disposed of, can harm the environment and human health. As a consumer, you are required by law to take them to your retail store or to an appropriate collection site depending on national or local regulations in order to protect the environment. The return service is free of charge.

The symbols for the contained heavy metals are: Cd=cadmium, Hg=mercury, Pb=lead.

18. Specifications**Measuring range indoor**

Temperature	0 °C... +50 °C (+32...+122 °F)
Humidity	20 %rH...95 %rH
Atmospheric pressure	900hPa ~ 1050hPa

Measuring range outdoor

Temperature	-20 °C... +60 °C (-4 °F...+140 °F)
Range	max. 60 m (open field)
Transmission frequency	433 MHz
Maximum radio-frequency power	< 10mW
Power consumption	Base station: 3 x 1,5 V AAA (Batteries not included) Outdoor transmitter: 2 x 1,5 V AAA batteries (Batteries not included) We recommend Alkaline batteries

Base station

Dimensions	158 x 26 (51) x 123 mm
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Weight	224 g (device only)
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Outdoor transmitter

Dimensions	50 x 30 x 97 mm
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Weight	45 g (device only)
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No part of this manual may be reproduced without written consent of TFA Dostmann. The technical data are correct at the time of going to print and may change without prior notice.

The latest technical data and information about this product can be found in our homepage by simply entering the product number in the search box.

EU Declaration of conformity

Hereby, TFA Dostmann declares that the radio equipment type 35.1155 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following Internet address: www.tfa-dostmann.de/service/downloads/ce

www.tfa-dostmann.de

E-Mail: info@tfa-dostmann.de

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12/22

HORIZON – Station météo radio-pilotée

Nous vous remercions d'avoir choisi l'appareil de la société TFA.

1. Avant d'utiliser votre appareil

- **Veillez lire attentivement le mode d'emploi.**
Vous vous familiariserez ainsi avec votre nouvel appareil, vous découvrirez toutes les fonctions et tous les éléments qui le composent, vous noterez les détails importants relatifs à sa mise en service et vous lirez quelques conseils en cas de dysfonctionnement.
- **En respectant ce mode d'emploi, vous éviterez d'endommager votre appareil et de perdre vos droits légaux en cas de défaut si celui-ci résulte d'une utilisation non-conforme.**
- **Nous n'assumons aucune responsabilité pour des dommages qui auraient été causés par le non-respect du présent mode d'emploi. De même, nous n'assumons aucune responsabilité pour des relevés incorrects et les conséquences qu'ils pourraient engendrer.**
- **Suivez bien toutes les consignes de sécurité !**
- **Conservez soigneusement le mode d'emploi !**

2. Contenu de la livraison

- Station météo (station de base)
- Émetteur (réf. 30.3242.02)
- Mode d'emploi

3. Aperçu du domaine d'utilisation et de tous les avantages de votre nouvel appareil

- Température extérieure sans fil (433 MHz), rayon d'action de max. 60 mètres (champ libre)
- Peut être complété de jusqu'à 3 émetteurs au maximum (également pour le contrôle de la température dans les espaces éloignés, par exemple dans les chambres d'enfants ou les caves à vin)
- Température et humidité ambiante avec niveau de confort du climat
- Valeurs maximales/minimales
- Prévisions météo par symboles et tendance de la pression atmosphérique
- Pression atmosphérique absolue ou relative
- Développement graphique de la pression atmosphérique des dernières 12 heures
- Horloge radio-pilotée avec jour de la semaine et date
- Réveil avec 2 alarmes et fonction de répétition « snooze »
- Horaires des levers et couchers du soleil et de la lune (pour 150 villes européennes)
- Indicateur des phases lunaires actuelles
- Éclairage de fond
- Peut être posé sur une surface plane ou fixé au mur