

Instruction Manual

Weatherstation 35.1043



1. Installation

1.1 Introduction

You have been purchasing a wireless weather station. You can control your room climate (temperature/humidity), measure the outdoor temperature and inform yourself about the local weather trend. The set contents a receiver (display unit) and a transmitter, which are battery operated.

The outdoor data will be transmitted wireless using 433 Mhz up to 25 meters in open space. You can install up to three transmitters and receive temperature information from other rooms (like childrens room, green house, wine cellar, storage rooms...)

To get started you need:

Receiver (Display unit)

Transmitter

Batteries 2 x 1,5 V AA for receiver and 2 x 1,5 V AA for transmitter (included)

Small screwdriver (not included)

Please read this instruction manual carefully and keep it !

1.2 Features:

This weather station has the following functions

- Radio controlled time with manual setting option
- Barometric Pressure Measurement.
- Weather Forecast with Sunny, Slightly Cloudy, Rainy and Cloud Burst.
- Barometric Pressure Bar Chart and past 12 hr Barometric Pressure Reading.
- wireless transmission of outdoor temperature 433MHz (up to 3 sensors)
- Measuring range:
 - Indoor temperature : 0°C ~ +50°C
 - Humidity : 30% ~ 90%
 - Outdoor temperature : -50°C ~ +70°C
 - Altitude : -200 ~ +2500 meter
- Outdoor temperature high/low alert function (settable)
- Max/Min Memory for Humidity, Indoor and Outdoor Temperature.
- Moon Phase Display.
- High Tide, Medium Tide and Low Tide Indication.

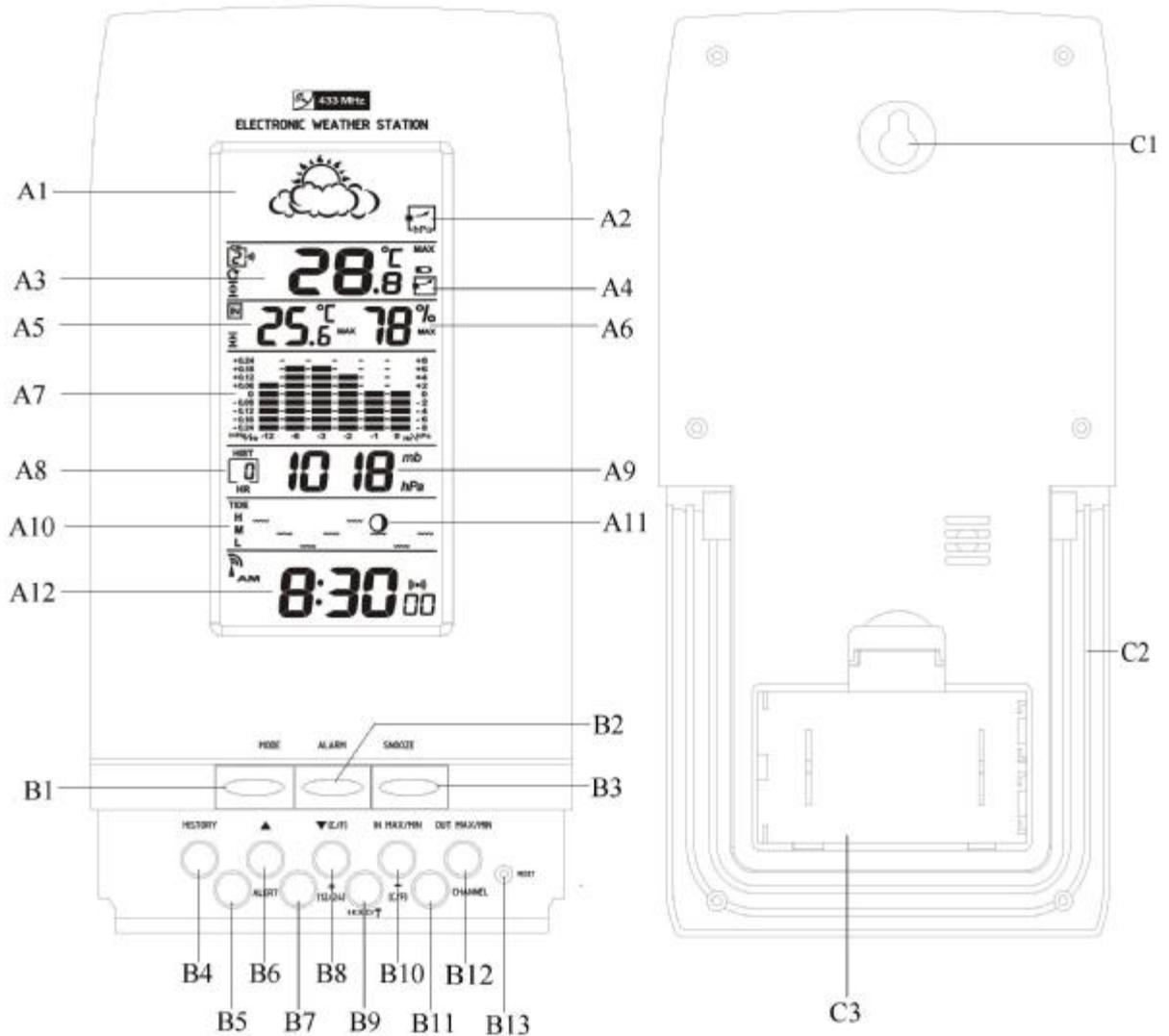
- Low-battery indicator for Weather Station and Outdoor Remote Sensor.
- Perpetual Calendar Up to Year 2069.
- 12/24Hour time display selectable.
- Day of week in 7 Languages Selectable.
- Power supply: Receiver DC 1.5 V AA size x 2 pcs
 Transmitter DC 1.5 V AA size x 2 pcs
- Size : 190 x 95 x 22 mm, standing or hanging purpose

Caution: Please participate in the preservation of the environment by properly disposing of used-up batteries and accumulators at designated disposal points.

1.3. Get familiar with the instrument

Learn about the details of the instrument.

1.3.1 Receiver (Display unit)



Front View

Back View

LCD:

- A1: Weather Forecast
- A2: Pressure Trend Indicator
- A3: Outdoor Temperature
- A4: Outdoor Temperature Trend Indicator.
- A5: Indoor Temperature.
- A6: Indoor Humidity
- A7: Barometric Pressure Trend Bar Chart
- A8: Past Hour Indicator
- A9: Barometric Pressure Indicator
- A10: Tide Indicator.
- A11: Moon Phase Indicator
- A12: Radio Controlled Time

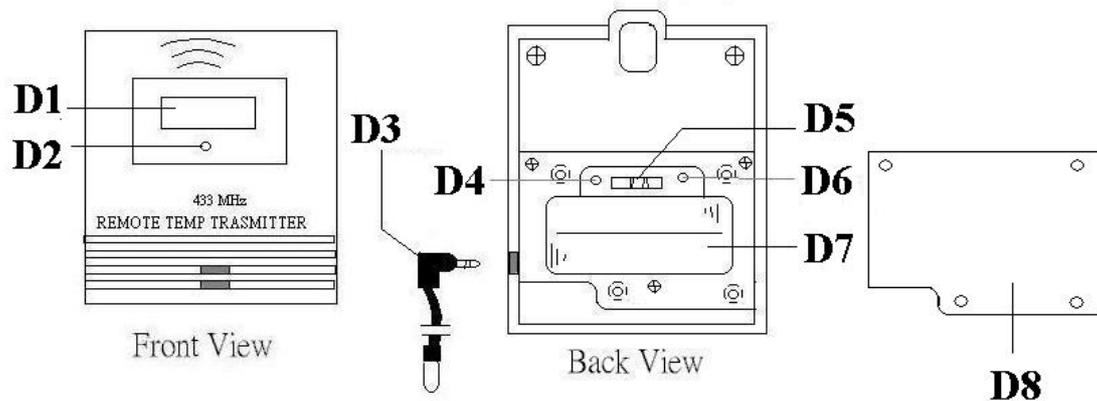
Buttons:

- B1: "MODE/SET" button
- B2: "ALARM ON/OFF" button.
- B3: "SNOOZE/LIGHT" button
- B4: "HISTORY" button
- B5: "ALERT" button
- B6: "△" button
- B7: "+(12/24)" button
- B8: "▽" button
- B9: "-(°C/°F)" button
- B10: "MAX/MIN" button
- B11: "CHANNEL" button
- B12: "MEM" button
- B13: "RESET" button

Housing:

- C1: Wall Mound Hole
- C2: Stand
- C3: Battery Compartment.

Thermo Sensor Unit Appearance.



- D1: Outdoor Temperature
- D2: Transmission Indication LED
- D3: Temperature Probe
- D4: "TX" button
- D5: Channel Selecting Switch
- D6: "°C/°F" button
- D7: Battery Compartment
- D8: Battery Door

1.4. Getting started

Open the battery compartment of display unit and transmitter and place both

instruments on a desk with a distance of approximately 1,5 meter. Check that no other electronic devices are close. Insert the batteries first into the battery compartment of the display unit and immediately afterwards the batteries of the transmitter, observing the correct polarity.

The barometric pressure indicator (A9) starts flashing and displays the preset altitude of 20 meter above sea level. Using the buttons B6 and B8 set the correct altitude of your place. **Important: Without calibrating the altitude properly, the weather station will automatically display a standard air pressure (1012 hectopascal), which can differ from the real, actual air pressure !** The altitude can be set later, without inserting the batteries again (see 1.5.5 Barometer setting).

The display unit automatically starts scanning the RF 433MHz signal to register new Thermo Sensor Unit after batteries inserted. After registered new channels or pressing “CHANNEL” button to stop scanning, the clock will then scan the DCF (radio controlled clock) frequency signal (“📶” flashes on the LCD). The clock automatically scans the time signal at 2.00 a.m. everyday to maintain accurate timing. For failed reception in 5 minutes, scanning stops (“📶 ” on the LCD disappear) and repeats again at 3.00 a.m. 4.00a.m. and 5.00a.m. The clock manually scans the time signal by holding “ - ” button for 3 seconds. For failed reception in 5 minutes, scanning stops. (“📶 ” on the LCD disappear). Press “-” button to stop scanning when receiving DCF signal. The signal “📶” turns on indicate signal received successfully. Time can be set manually as well (see 1.5.1 Clock setting).

If the reception of outdoor temperature failures, check the batteries and try it again. Check if there is any source of interference. Manual initialization can be helpful (see 1.5.8 transmitter). The attached transmitter is preset to channel 1. Using channel switch (D5), you can choose another channel as well.

1.5 How to operate

Important: During operation, all successful settings will be confirmed by an acoustical signal. The instrument will quit the setting mode, if there is no button used within 5 seconds period. Holding “+” or “-” buttons, you will enter fast mode.

1.5.1 Manual Time Setting:

Hold “ MODE” button for 2 seconds. Press “+” or “-” buttons to adjust Hours. Using “ MODE” button you can switch to setting minutes, seconds, year, month/day sequence, month, day, time zone, day-of-week language. 7 languages can be selected in Day-of-week, they are: German, English, Denmark, Dutch, French, Italian and Spanish. The languages and their selected abbreviations for each day of the week are shown in the following table.

Language	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
German, GE	SO	MO	DI	MI	DO	FR	SA
English, EN	SU	MO	TU	WE	TH	FR	SA
Denmark, DA	SO	MA	TI	ON	TO	FR	LO
Dutch, NE	ZO	MA	DI	WO	DO	VR	ZA
French, FR	DI	LU	MA	ME	JE	VE	SA
Italian, IT	DO	LU	MA	ME	GI	VE	SA
Spanish, ES	DO	LU	MA	MI	JU	VI	SA

The zone is used for the countries where can receive the DCF signal but the time zone is different from the German time. When the country time is faster than the German time for 1 hr, the zone should be set to 1. Then the clock will automatically set 1 hour faster from the signal time received. The Time Setting Mode will automatically exit in 5 seconds without any adjustment.

1.5.2 Snooze Alarm Clock Function:

Press “MODE” button to select to view Alarm Time :

Time → Date/Month /Weekday → Alarm Time (“ALM” Shown on the LCD)

When viewing the Alarm Time, hold “MODE” button for 3 seconds to enter Alarm Time setting. Press “+” or “-” buttons to adjust the alarm time. Confirm hours with “MODE” button and switch to minutes setting. Press “ALARM” button to switch alarm on or off. If it is on, “” shown on the LCD. Snooze alarm snoozes for 5 minutes, then it alarms again. Press any button to stop the snooze alarm.

1.5.3 Maximum/Minimum Outdoor Temperature recording function:

Press “MAX/MIN” button to show the maximum outdoor temperature (for each channel). Hold “MAX/MIN” button for 3 seconds to clear the recorded maximum and minimum reading.

1.5.4 Maximum/Minimum Indoor Temperature and Humidity recording function:

Press “MEM” button to show the maximum indoor temperature and humidity. Press “MEM” button again to show the minimum outdoor temperature and humidity. Hold “MEM” button for 3 seconds to clear the recorded maximum and minimum reading.

1.5.5 Barometer Setting

After Batteries inserted, or holding “HISTORY” button for 3 seconds, Pressure Reading’s digits flashes(LCD-A9) for 5 seconds. Enter the height of the weather station above sea level by pressing “△” or “▽” buttons. Press “HISTORY” button to confirm the setting. After entered the height, the Pressure Reading shows the Barometric Pressure at the sea level. The weather forecast may not accurate if height

enter is not correct. The height should be reentered if the height is changed. Compare the calculated air pressure to the real air pressure (from internet, weather forecast). If the calculated value is different from real air pressure, it can be adjusted by increasing (10 meters increasing altitude will increase one hectopascal) or decreasing the altitude.

1.5.6 Weather Forecast

Totally 5 different weather symbols in the weather forecast, which allows you together with indication of air pressure (A9), pressure trend (A2), pressure chart (A7) and pressure history (A8), to make your own weather forecast.



means **Sunny** .



means **Slightly Cloudy**.



means **Cloudy**.

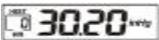


means **Rainy**



***** means **Cloudburst**.

If there is any inconsistency of weather forecast between Local Weather Station and this unit, the Local Weather Station's forecast should prevail.

Hold “ Δ ” button for three seconds to select the unit for Barometric Pressure Meter in inHg or mb / hPa.  \longrightarrow 

Press “HISTORY” button to view the past 12 hour Barometric Pressure history (A8).

The Barometric Pressure Trend recorded in the past 12 hour is shown on the Barometric Pressure Trend Bar Chart (A7).

1.5.7 Thermometer:

Press “-($^{\circ}\text{C}$ / $^{\circ}\text{F}$)” button to select Outdoor Temperature in Celsius mode/ Fahrenheit mode. Press “ ∇ ” button to select Indoor Temperature in Celsius mode/ Fahrenheit mode.

1.5.8 Outdoor thermo sensor unit registration procedure:

The weather station automatically starts receiving transmission from Outdoor Thermo Sensor for outdoor temperature after new batteries are inserted. The sensor will automatically transmit temperature to the weather station after batteries inserted. Batteries compartment of thermo sensor is locating behind the back cover, unscrews to open. Press “TX “ button on the thermo sensor unit to transmit temperature to the weather station manually. The weather station gives a “beep” sound if it received the temperature. Close the battery compartment of transmitter carefully.

1.5.8 Additional Transmitters

The weather station allows you to add up to 3 transmitters. For having more than one external transmitter (Maximum3), select the Channel, CH1, CH2 or CH3 to ensure each sensor is transmitting difference channel before inserting batteries. The channel select switch is at the back of the thermo sensor.

To retrieve different channels at Display Station press “ CHANNEL” button to view the 3 Channels’ temperature. For alternating channel display choose “☉” symbol.

To cancel unused channel hold “ CHANNEL” button for 3 seconds. It will automatically register a new channel again if a new channel is received.

The trend pointer displayed on the LCD indicates the trend of the outdoor temperature (A4).

Press “ °C /°F” button, on the Thermo Sensor unit, to select Thermo Sensor displayed in Celsius mode or Fahrenheit mode.

1.5.8.2 The use of 1.5m cord Temperature Probe:

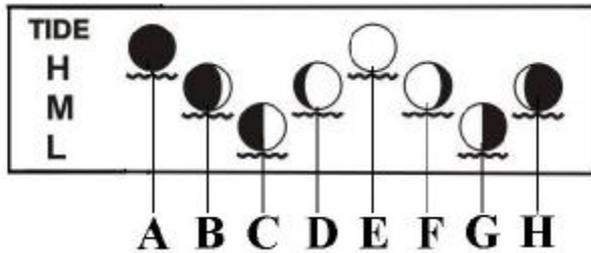
Insert the probe plug on the right hand side of the Thermo Sensor Unit. Put the metal casing outside and leave the Thermo Sensor Unit in a indoor area to avoid freezing up the battery when the outdoor temperature is below -20 °C or when measuring liquids. Be aware of sharp edges at window frames, when passing cable through.

1.5.8.3 Outdoor Temperature Alert function:

Press “ ALERT” button to set the Outdoor Temperature Alert function on or off. “☉” appears on the LCD if this function is on. Hold “ ALERT” button for 3 seconds to enter the Alert setting. Outdoor temperature flashes. Press “ +” or “-” button to select the channel for the temperature alert. Press ”ALERT” button to confirm the settings. Press “ +” or “-” button to set the upper “☉” and lower “☉” limit of the temperature.

1.5.9 Moon Phase and Tide Indication

The Moon Phase of each day is shown on the LCD.



- | | | |
|-------------------|--------------------|-------------------|
| A: New Moon | B: Waxing Crescent | C: First Quarter |
| D: Waxing Gibbous | E: Full Moon | F: Waning Gibbous |
| G: Last Quarter | H: Waning Crescent | |

Tide Status :

- | | | |
|---------------|----------------|-------------|
| H : High Tide | M: Medium Tide | L: Low Tide |
|---------------|----------------|-------------|

1.6 Positioning of Display Unit and Transmitter

Choose a shady and dry position for transmitter. Place the Display Unit at the final position. Check the transmission of 433 Mhz signal (avoid any interfering field and object). If necessary chose another position for Transmitter and/or Display Unit. Fix the transmitter by using plastic hanger.

1.7 Battery Replacement

When batteries are used up, Low battery icon “” appears at indoor temperature row indicating weather station in low battery status (A5). When batteries of Transmitter are used up, Low battery icon “” appear at outdoor temperature row in particular channel indicating the external transmitter of the channel in low battery status (A3). Use alkaline batteries only. Observe correct polarity.

Caution: Please participate in the preservation of the environment by properly disposing of used-up batteries and accumulators at designated disposal points.

Important: After replacing batteries, altitude has to be adjusted again !

Note:

- | Always read the users manual carefully before operating the Unit.
- | Avoid placing the clock near interference sources/metal frames such as computer or TV sets.
- | The clock loses its time information when the battery is removed.
- | Buttons will not function while scanning for DCF or outdoor temperature signal unless they are well received or stopped manually.
- | All Setting Mode will automatically exit in 5 seconds without any adjustment.

1.9 Liability Disclaimer

The product is not a toy. Keep it out of reach of children.

The product is not to be used for medical purpose or for public information, but is determined for home use only.

Improper use or unauthorized opening of housing will mean the loss of warranty.
No part of this manual may be reproduced without written consent of manufacturer.

CE 0682 !

Herewith we declare, that this wireless transmission device does comply with the
essentials requirements of R&TTE Directive 1999/5/EC.

TFA Dostmann GmbH & Co.KG, Wertheim