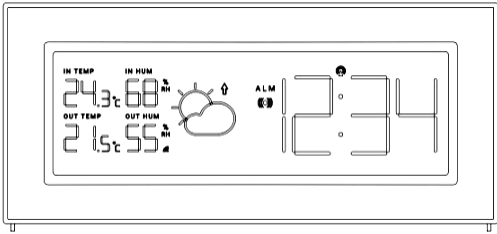




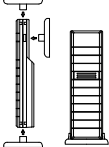
FEATURES

The Weather Station



- DCF-77 Radio controlled time function with manual time setting options
- Time zone setting +/-12h
- DCF time reception ON/OFF
- 24 hour display
- Temperature display in degree Celsius (°C)
- Indoor and outdoor temperature with MIN/MAX records
- Indoor and outdoor humidity with MIN/MAX records
- Manual reset of MIN/MAX records
- 3 weather forecast with weather tendency indicator
- Alarm
- Wireless transmission at 868 MHz
- Signal reception intervals at 4 seconds
- Low battery indicator for outdoorsensor
- Table standing

Thermo-Hygro Transmitter



- Remote transmission of outdoor temperature to weather station by 868MHz
- Wall mounting case
- Mounting at a sheltered place. Avoid direct rain and sunshine

SETTING UP

Note: This weather station receives only one outdoor transmitter.

1. First, insert the batteries in the transmitter (see **"How to install and replace batteries in the thermo-hygro transmitter"** below).
2. Within 30 seconds of powering up the transmitter, insert DC power cable into the 5V socket of the weather station. All segments of the LCD will light up briefly. Then the indoor temperature, humidity and the time 0:00 will be displayed. If these information are not displayed on the LCD after 60 seconds, the weather station has to be reset. Press and hold the SET button until the time zone flashes. Then press the SET button 7 times until "rSt" is displayed. Press and hold the + / RESET button until "rSt" no longer flashes. The reset is now carried out.
3. Once the indoor data is displayed user may proceed to the next step.
4. After the batteries are inserted, the weather station will start receiving data signal from the transmitter. The outdoor temperature and humidity data should then be displayed on the weather station. If this does not happen after 2 minutes, the batteries will need to be removed from both units and reset from step 1.
5. In order to ensure successful 868 MHz transmission, the distance between the weather station and the transmitter should be within 100 meters (see notes on **"Positioning"** and **"868 MHz Reception"**).
6. Once the outdoor data reception test period is completed, the DCF tower icon in the clock display will start flashing in the upper left corner. This indicates that the clock has detected that there is a radio signal present and is trying to receive it. When the time code is received, the DCF tower becomes permanently lit and the time will be displayed.

HOW TO INSTALL AND REPLACE BATTERIES IN THE THERMO-HYGRO TRANSMITTER

The outdoor thermo-hygro transmitter uses 2 x AA, IEC LR6, 1.5V batteries. To install and replace the batteries, please follow the steps below:

1. Remove the battery cover by pushing the battery cover upwards with your thumb.
2. Insert the batteries, observing the correct polarity (see battery compartment marking).
3. Replace the battery cover on the unit.

Note:

In the event of changing batteries in any of the units, all units need to be reset by following the setting up procedures. This is due to a random security code assigned by the transmitter at start-up. This code must be received and stored by the weather station in the first 30 seconds of power being supplied to the transmitter. A reset must be carried out at the station, according to "setting up", point 2.

ADD DEVICE TO MOBILE-ALERTS SYSTEM

(MOBILE ALERTS gateway needed, sold separately)

Open the app, dashboard is displayed. Tap "Add new sensor" and scan the QR code on the back of the MA 10901. Then set a name for the sensor. To set a name, select the transmitter and then tap on the left area of the pencil icon in the upper right.

Note:

Only the data for indoor, outdoor temperature and indoor humidity are transmitted to Mobile-Alerts.

DCF RADIO CONTROLLED TIME

The time base for the radio controlled time is a Cesium Atomic Clock operated by the Physikalisch Technische Bundesanstalt Braunschweig which has a time deviation of less than one second in one million years. The time is coded and transmitted from Mainflingen near

Frankfurt via frequency signal DCF-77 (77.5 kHz) and has a transmitting range of approximately 1,500 km. Your radio-controlled weather station receives this signal and converts it to show the precise time in summer or wintertime. The quality of the reception depends greatly on the geographic location. In normal cases, there should be no reception problems within a 1,500 km radius of Frankfurt.

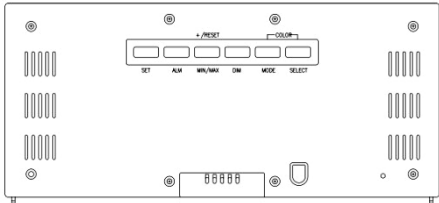
DCF reception is done twice daily at 02:00 and 03:00 am. If the reception is not successful at 03:00 am, then the next reception takes place the next hour and so on until 06:00am, or until the reception is successful. If the reception is not successful at 06:00 am, then the next attempt will take place the next day at 02:00 am.

- If the tower icon flashes, but does not set the time or the DCF tower does not appear at all, then please take note of the following:
- Recommended distance to any interfering sources like computer monitors or TV sets is a minimum of 1.5 - 2 meters.
 - Within ferro-concrete rooms (basements, superstructures), the received signal is naturally weakened. In extreme cases, please place the unit close to a window and/ or point its front or back towards the Frankfurt transmitter.
 - During nighttime, the atmospheric disturbances are usually less severe and reception is possible in most cases. A single daily reception is adequate to keep the accuracy deviation below 1 second.

FUNCTION KEYS

Weather station:

The weather station has 6 function keys:



SET key

- Press to toggle between time and date display
- Press and hold for 2 seconds to enter manual setting modes: time zone, time reception ON/OFF, date, manual time setting and reset function

ALM key

- Press to toggle between time and date display
- Activate and deactivate alarm while in alarm display mode
- Press and hold for 2 seconds to enter alarm time setting while in alarm display mode

+ RESET MIN/MAX key

- To increase/change values in setting modes
- Press to return to time display from date or alarm display mode
- Press to toggle between MIN/MAX values while in time display mode
- Press and hold for 2 seconds to reset recorded MIN/MAX values

DIM key

- Adjust back light brightness in sequence, strong, middle and weak. "D1" will be displayed for strong, "D2" will be displayed for middle and "D3" will be displayed for weak

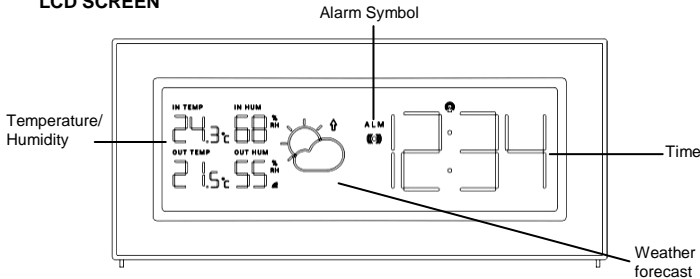
MODE key

- Press to toggle the light color mode: temperature color mode, single color mode and changing color mode. Display "C1" for temperature color mode, "C2" for single color mode, and "C3" for changing color mode

SELECT key

- Press to select between the different colors during the single color mode

LCD SCREEN



MANUAL SETTINGS

The following settings can be changed after pressing and holding the SET key for 3 seconds:

- Time zone setting
- Time reception ON/OFF setting
- Date setting
- Manual time setting
- Reset function

TIME ZONE SETTING

The time zone default of the weather station is "0". In UK set the time zone to -1. To set a different time zone:

1. The current time zone value starts flashing.
2. Use the + RESET MIN / MAX key to set the time zone. The setting range is from -12h to +12h hours in 1-hour intervals.
3. Confirm with the SET key and enter the **Time Reception ON/OFF Setting**.

TIME RECEPTION ON/OFF SETTING

In area where reception of the DCF-77 time signal is not possible, the DCF-77 time reception function can be turned OFF. The clock will then work as a normal quartz clock. (Default setting is "1" = ON).

1. The digit "ON" will start flashing on the LCD.
2. Use the + key to turn OFF the time reception function.
3. Confirm with the SET key and enter the **manual date setting**

Note:

- If the Time Reception function is turned OFF manually, the clock will not attempt any reception of the DCF time as long as the Time Reception OFF function is activated.
- The time reception " " and the "DCF" icons will not be displayed on the LCD.

MANUAL DATE SETTING

1. The year flashes on the LCD, press the + RESET MIN / MAX key to set the year. Press the SET key to confirm.
2. The month flashes on the LCD, press the + RESET MIN / MAX key to set the month. Press the SET key to confirm.
3. The day flashes on the LCD, press the + RESET MIN / MAX key to set the day. Press the SET key to confirm and enter the **manual time setting**.

MANUAL TIME SETTING

In case the weather station cannot detect the DCF-signal (for example due to disturbances, transmitting distance, etc.), the time can be manually set. The clock will then work as a normal quartz clock.

The hour digit will start flashing.

Use the + RESET MIN / MAX key to set the hour. Keep holding the key to advance faster. Press again the SET key to set the minutes. The minute digits start flashing. Use the + RESET MIN / MAX key to set the minutes. Keep holding the key to advance faster. Confirm with the SET key to enter the **reset function**

Note:

The unit will still try and receive the signal despite it being manually set. When it does receive the signal, it will change the manually set time into the received time. During reception attempts the DCF tower icon will flash. If reception has been unsuccessful, then the DCF tower icon will not appear but reception will still be attempted the following day. The time reception " " and the "DCF" icons will not be displayed on the LCD after manual time setting.

RESET FUNCTION

"rSt" flashes on the display

Press and hold the + RESET MIN / MAX button until "rSt" stops flashing.

The reset is now carried out.

If you do not want to perform a reset, press the SET button to exit the setting mode.

ALARM SETTING

Press and hold the ALM key for about 3 seconds until the alarm time indicator flashes. "ALM" appears on the left, while alarm time is displayed. The hour digits will flash first and the alarm icon will be displayed. Press the + RESET MIN / MAX key to set the hours. Keep holding the key to advance faster. Press the ALM button again, the minutes flash. Then use the + RESET MIN / MAX key to set the minutes. Keep holding the key to advance faster. Press the ALM button once more to confirm the setting

Note:

To activate or deactivate the alarm function, press the ALM key during the alarm display mode. When the alarm icon is displayed, the alarm is activated.

The signal duration of the alarm is about 2 minutes. To end the alarm, press any key.

WEATHER FORECASTING ICONS

The weather icons can be displayed in any of the following combinations:



For every sudden or significant change in the air pressure, the weather icons will update accordingly to represent the change in weather. If the icons do not change, then it means either the air pressure has not changed or the change has been too slow for the weather station to register. However, if the icon displayed is a sun or raining cloud, there will be no change of icon if the weather gets any better (with sunny icon) or worse (with rainy icon) since the icons are already at their extremes.

The icons displayed forecasts the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates. For example, if the current weather is cloudy and the rainy icon is displayed, it does not mean that 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.

Note:

After setting up, readings for weather forecasts should be disregarded for the next 12-24 hours. This will allow sufficient time for the weather station to collect air pressure data at a constant altitude and therefore result in a more accurate forecast.

Common to weather forecasting, absolute accuracy cannot be guaranteed. The weather forecasting feature is estimated to have an accuracy level of about 75% due to the varying areas the weather station has been designed for use. In areas that experience sudden changes in weather (for example from sunny to rain), the weather station will be more accurate compared to use in areas where the weather is stagnant most of the time (for example mostly sunny).

If the weather station is moved to another location significantly higher or lower than its initial standing point (for example from the ground floor to the upper floors of a house), discard the weather forecast for the next 12-24 hours. By doing this, the weather station will not mistake the new location as being a possible change in air-pressure when really it is due to the slight change of altitude.

The weather forecast and tendency are not transmitted to MOBILE ALERTS! They can only be read on the display.

WEATHER TENDENCY INDICATOR

The weather tendency indicators (located on the left side of the weather icons) are working together with the weather icons. When the indicator points upwards, it means that the air-pressure is increasing and the weather is expected to improve, but when indicator points downwards, the air-pressure is dropping and the weather is expected to become worse.

Taking this into account, one can see how the weather has changed and is expected to change. For example, if the indicator is pointing downwards together with cloud and sun icons, then the last noticeable change in the weather was when it was sunny (the sun icon

only). Therefore, the next change in the weather will be cloud with rain icons since the indicator is pointing downwards.

Note:

Once the weather tendency indicator has registered a change in air pressure, it will remain permanently visualized on the LCD.

TO VIEW THE MIN/MAX TEMPERATURE DATA

Press the MIN/MAX key several times to view the MIN/MAX indoor and outdoor temperature sequentially.

TO RESET TEMPERATURE MIN/MAX DATA

Press and hold MIN/MAX key for 3 seconds to reset all the indoor and outdoor temperature to current temperatures.

CHANGE BRIGHTNESS

Adjust back light brightness with the DIM key in sequence, strong, middle and weak. "D1" will be displayed for strong, "D2" will be displayed for middle and "D3" will be displayed for weak.

COLOR SETTINGS

Press the COLOR button repeatedly until a desired color mode is selected.

The setting "c1" means that the background color is adapted to the current temperature values (cold colors at colder temperatures and warm colors at warmer temperatures).

Color representations of the temperature:

- The color changes from red to orange over 30.0 °C to 24.0 °C.
- The color is yellow from 23.9 °C to 22.0 °C.
- From 21.9 °C to 14.0 °C the color changes from light green to dark green.
- From 13.9 °C to 12.0 °C the color is turquoise.
- From 11.9 °C to 2.0 °C the color changes from light blue to dark blue.
- From 1.9 °C to - 4.0 °C the color changes from purple to pink.
- From - 4.1 °C to below - 8.1 °C, the color changes from violet to red.

The setting "c2" means that one of 22 possible colors is displayed.

In this mode, press the MODE button repeatedly until a desired color is displayed, "col" is shown on the display during selection. The selected color is then used permanently as a lighting color.

In setting "c3" all possible background colors are permanently displayed alternately.

ABOUT THE OUTDOOR TRANSMITTER

The range of the thermo-hygro transmitter may be affected by the temperature. At cold temperatures the transmitting distance may be decreased. Please bear this in mind when positioning the transmitters. Also the batteries may be reduced in power for the thermo-hygro transmitter.

CHECKING FOR 868MHz RECEPTION

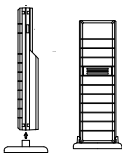
If the outdoor temperature and humidity data are not being received within 30 seconds after setting up (or outdoor display always shows "-.-" in the outdoor section of the weather station during normal operation), please check the following points:

1. The distance of the weather station or transmitters should be at least 2 meters away from any interfering sources such as computer monitors or TV sets.
2. Avoid placing the transmitters onto or in the immediate proximity of metal window frames.
3. Using other electrical products such as headphones or speakers operating on the 868MHz-signal frequency may prevent correct signal transmission or reception. Neighbors using electrical devices operating on the 868MHz-signal frequency can also cause interference.

Note:

When the 868MHz signal is received correctly, do not re-open the battery cover of either the transmitter or weather station, as the batteries may spring free from the contacts and force a false reset. Should this happen accidentally then reset all units (see **"Setting up"** above) otherwise transmission problems may occur.

The transmission range is around 100 meters from the thermo-hygro transmitter to the weather station (in open space). However, this depends on the surrounding environment and interference levels. If no reception is possible despite the observation of these factors, all system units have to be reset (see **"Setting up"** above).

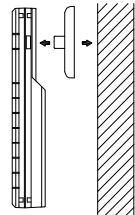


POSITIONING THE THERMO-HYGRO TRANSMITTER

Mounting at a sheltered place. Avoid direct rain and sunshine.

The thermo-hygro transmitter can be placed onto any flat surface or wall mount using the bracket which doubles as a stand or wall mount base.

To wall mount:



1. Secure the bracket onto a desired wall using the screws and plastic anchors.
2. Clip the transmitter onto the bracket.

Note:

Before permanently fixing the thermo-hygro to the wall base, place all units in the desired locations to check that the outdoor temperature and humidity readings are receivable. In event that the signal is not received, relocate the thermo-hygro transmitter or the weather station slightly as this may help the signal reception.

CARE AND MAINTENANCE

- Extreme temperatures, vibration and shock should be avoided as these may cause damage to the unit and give inaccurate forecasts and readings.
- When cleaning the display and casings, use a soft damp cloth only. Do not use solvents or scouring agents as they may mark the LCD and casings.
- Do not submerge the unit 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 unit. Return them to their original point of purchase for repair by a qualified engineer. Opening and tampering with the unit may invalidate their 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.

Troubleshooting

When no sensor readings are displayed in the app, check if the green LED on the gateway is permanently lit. If not, please check if:

- The gateway is properly connected to the power plug, the router and is turned on.
- Restart the station by removing the batteries for a minute and reinserting, to restart the device.
- Your phone is connected to the internet.
- The signal is weakened by thick walls and ceilings. Put the device in operation near the gateway and then locate a suitable location.

More information and detailed instructions can be found in the app at "Info" or at www.mobile-alerts.eu

Techno Trade Import Export GmbH, hereby declares that the devices MA 10901 and TX29TH-IT are in compliance with the essential requirements of directive 2014/53 / EU.

The declaration of Conformity can be found at: www.mobile-alerts.eu/technoline/doc

SPECIFICATIONS

Temperature measuring range:

Indoor: -9.9°C to +59.9°C with 0.1°C resolution
("OF.L" displayed if outside this range)
Outdoor: -39.9°C to +59.9°C with 0.1°C resolution
("OF.L" displayed if outside this range, "----" displayed if no transmitter signal)

Humidity measuring range:

Indoor/outdoor humidity range : 1% to 99% with 1% resolution
(Display "-.-" if temperature is OL.F; display "1%" if < 1% and "99%" if > 99%)

Data checking intervals:

Indoor temperature checking interval: every 16 seconds
Outdoor temperature reception : every 4 seconds
Transmission to Gateway : every 7 minutes
Transmission range : up to 100 meters (open space)

Power consumption (alkaline batteries recommended):

Weather station : DC 5V, 150mA adapter
Transmitter : 2 x AA, IEC, LR6, 1.5V

Dimensions (L x W x H):

Weather station : 200 x 35 x 89 mm
Transmitter : 38.2 x 21.2 x 128.3 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 and/or 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 temperature.
- 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.



Old batteries do not belong into general household waste. You are obliged to return used batteries to your vendor or collection points



Electrical devices have to be disposed separately from the general household waste. Take your old electronics to your local waste collection point or recycling centre.

