SCHÖNES WETTER!

TFA

Nexus Weather Station

(Kat. Nr. 35.1075)
Instruction Manual

KSPO:用于0661-16之后的订单(TFA)
TFA TE922&TS34C&TS808&TS906 MANUAL 2(Eng)
Size: W148 X H210(mm)
Material: 80 LBS WF-PAP
Printing Color: BLACK（双面印刷）
BY Lai H Z 09/03/2017 Rev.0

Thank you for choosing this instrument from TFA.
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 take particular note of the safety advice!
Please keep this instruction manual safe for future reference.

For your safety:
• This product is exclusively intended for the range of application described above. The product should only be used as described within these instructions.
• Unauthorized repairs, alterations or changes to the product are not permitted.

Caution!
Risk of electrocution!
• Plug the base station only into a mains socket installed within electrical safety regulations and with a 230V mains voltage!
• The mains socket must be installed near the equipment and it must be easily accessible.
• The base station and the power adapter must not come into contact with water or moisture. It should be operated in dry interiors.
• Do not use the device if the housing or the power adapter are damaged.
• Keep the device out of reach of persons (including children) who cannot fully appreciate the potential risks of handling electrical equipment.
• Unplug the device immediately if any fault occurs or if the device is not to be used for a long period of time.
• Please use only the supplied power adapter.
• Connect the lead to the base station first, then plug the power adapter into the mains socket.
• Do not pull the plug out of the mains socket by its lead.
• Route the power adapter lead so that it does not come into contact with sharp-edged or hot objects.

Caution!
Risk of injury:
• Keep these instruments and the batteries out of reach of children.
• Batteries must not be thrown into a fire, short-circuited, taken apart or recharged. Risk of explosion!
• Batteries contain harmful acids. 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. Wear chemical-resistant protective gloves and safety glasses when handling leaking batteries.

Important information on product safety!
• Do not expose your device to extreme temperatures, vibrations or shocks.
• Protect it from moisture.
• The Thermo-hygro transmitter are splashproof, but not watertight. Should you decide to use the transmitters in the outdoor area, choose a shady and dry place for them.

Main Console Unit
The main console unit features a radio-controlled precision clock with alarm and weather forecast. It measures indoor temperature and humidity, and displays weather data collected by the remote weather sensors. It also provides indication of the indoor/outdoor temperature, pressure and humidity trends, and celestial information such as moon phase, and sunrise/set times.

The main console unit stores around 3000 weather records without a computer connection. When linked to a computer using the USB cable and software, an unlimited number of weather records can be displayed and saved onto the computer.

Remote Weather Sensors
The remote weather sensors include a thermo-hygrometer, anemometer (wind sensor) and rain sensor. All data collected by the sensors is transmitted to the main console unit by wireless RF (433.92Mhz). The weather station supports a maximum of 5 thermo-hygrometers, allowing 5 channels of temperature/humidity display.

Features
Weather Forecast
- Sunny, Partly Cloudy, Cloudy, Slight Rain, Heavy Rain, Snow and Unstable Weather conditions

Pressure
- Current or historical pressure (mBar/ hPa, mmHg or inHg)
- Altitude or sea level pressure adjustment for atmospheric pressure compensation
- Pressure trend indication
- Sea-level pressure history for the last 24 days
- Sea-level pressure history bar chart

Moon phase
- 12 steps of moon symbols
- Scans moon phase for year 2000 to 2099
- Moon phase history for the last or future 39 days

Radio Controlled Clock
- Time and date synchronized by radio signal DCF-77 to atomic clock precision (time and date also manually adjustable)

Clock and Calendar (12hr/ 24 hr) (month/day or day/month)
- Different combinations of clock and calendar displays
- 6 languages for day of week (English/ German/ French/ Italian/ Spanish/ Dutch)

Contents of Complete Weather Station Kit
Before installing your weather station, please check that the following are complete:

	Hardware Components	Fittings
	Main Console Unit	AC/DC 7.5V output adaptor USB
	Thermo-Hygro Sensor	
	Rain Sensor: - Funnel shaped Lid with Battery Hatch - Sensor Base - Bucket See - saw Mechanism - Protective Screen	4 screws for securing unit to ground
	Anemometer (Wind Sensor): - Wind Cups - Wind Vane - Anemometer arm - Anemometer base	4 screws for securing unit to vertical surface
		2m (6ft) USB cable

Alarms
- **Single alarm**: activated once at specified time
- **Weekday alarm**: activated everyday from Monday to Friday at specified time
- **Pre-alarm**: activated ahead of single or weekday alarm if channel 1 temperature falling to +2°C or below. (Fixed 30 minutes)
- Programmable snooze function (1-15 minutes)

Sunrise time and sunset time
- Calculates sunrise/set times with geographical information provided by user (DST, zone time offset, latitude, longitude)
- over 133 preset cities can be selected for automatic geographical information input

Remote temperate and relative humidity, with trend indication
- Indoor and outdoor temperature and relative humidity display (°C or °F)
- Temperature and relative humidity trend indication
- Dew point display
- Max and Min memory for temperature and relative humidity

Comfort level indicator
- Analyzes current environmental conditions (Comfort, Wet and Dry)

Rainfall measurement
- Records rainfall amount for the last hour, last 24 hours, last day, last week and last month (inch or mm).
- Daily rainfall alert if rainfall for the current day exceed pre-specified amount.

Wind
- Temperature at place of anemometer.
- Temperature adjusted to wind chill factor. (°C or °F)
- Wind direction compass display. Wind direction angles available as compass points or bearings.
- Average wind speed and gust speed (mph, m/s, knots, and km/h)
- Daily Maximum wind speed and gust speed memory.
- Wind speed alert for average wind speed and wind gust speed.

Memory Functions
- Stores 3000 weather records (without a computer connection) with memory saving intervals (1 hr default).
- Interval: 5 Min., 10 Min., 20 Min., 30 Min., 1 Std., 1½ Std., 2 Std., 3 Std., 4 Std., 6 Std., 24 Std.
- USB port for connection to computer to allow upload of weather records.

LED backlight
- Light sensor to automatically toggle backlight when environment lighting level is low. Can be turned on/off or set to automatic. (Should be used with AC/DC adaptor for automatic control function)

Other Features
- Foldable table stand for mounting display on a table or wall

Installing your weather station
Setting up the Remote Weather Sensors
Before starting up the main console unit, setup all the remote sensors first.

When placing the sensors, make sure that they are within receiving range of the console unit. Ideally they should be within the line of sight of the console unit. Transmission range may be affected by trees, metal structures and electronic appliances. Test reception before permanently mounting your weather station.

Also make sure that the sensors are easily accessible for cleaning and maintenance.
The remote sensors should be cleaned on a weekly basis, since dirt and debris will affect sensor accuracy.

Setting up the Thermo-Hygro Sensor(s)
1. Open the latch at the base of the thermo-hygro sensor.
2. Set the channel with a slide switch.
3. Insert 2 x "AA" size 1.5V batteries.
4. Use a pin to press the "RESET" key which is in the battery compartment of thermo-hygrometer sensors.
5. Replace the latch and mount unit at desired location.

Placement tips:
- The thermo-hygrometer sensor should be in an area with free air circulation and sheltered from direct sunlight and other extreme weather conditions. Place the unit in a shaded area, such as under a roof.
- Use the wall mount and fittings provided if mounting the unit on a vertical surface.
- Avoid placing the sensor near sources of heat such as chimneys.
- Avoid any areas which collect and radiate heat in the sun, such as metal, brick or concrete structures, paving, patios and decks.
- Ideally, place the sensor above natural surfaces such as a grassy lawn.
- The international standard height for measurements of air temperature is at 1.25m (4 ft) above ground level.

Setting up the Rain Sensor
1. Unlock the funnel-shaped top of the rain sensor by turning both knobs on the sides of the rain sensor in an anti-clockwise direction.
2. Lift the top off the base and insert 2 x "AA" size 1.5V batteries into the battery holder.
3. Replace the lid and secure into place by turning the knobs clockwise.
4. Place the rain sensor in a location such that precipitation can fall directly into the sensor, ideally 2-3 ft above the ground.
   It may be secured into place by using the four screws provided.
5. The sensor must be accurately level for optimum performance. To check if the sensor is level, remove the lid and check if the ball bearing inside is at the midpoint of the leveler. Additionally, a bubble level or carpenter's level may be used.
6. Attach the protective screen onto the top of the lid. The screen will prevent any debris entering the sensor.

Placement tips:
- The rain sensor should be placed in an open area away from walls, fences, trees and other coverings which may either reduce the amount of rainfall into the sensor, deflect the entry of wind-blown rain, or create extra precipitation runoff. Trees and rooftops may also be sources of pollen and debris.
- To avoid rain shadow effects, place the sensor at a horizontal distance corresponding to two to four times the height of any nearby obstruction.
- It is important that rain excess can flow freely away from the sensor. Make sure that water does not collect at the base of the unit.
- The rainfall measurement mechanism utilizes a magnet, hence do not place any magnetic objects around the proximity of the sensor.

Setting up the Anemometer (wind sensor)
1. Assemble the wind cups and wind vane to the anemometer arm, using the included small allen key.
2. Insert the 2 x 1.5 V AA batteries (optional) into the battery compartment in the base, observing the correct polarity. The anemometer is solar-powered.
   The batteries will operate as a backup power source.
3. Pull off the protection foil from the solar panel.
4. Insert the adapter into the jack. The rechargeable battery is already installed and now ready to use.
5. Mount the anemometer onto a vertical surface, using the fittings provided. To allow the main console unit to indicate the correct wind direction, the wind vane must be oriented towards the north, while the wind vane is in line with the anemometer's arm. Use a compass if necessary.

Note: If the wind sensor cannot be fixed with the anemometer's arm towards the north, as provided by the default setting, you have to adjust the anemometer manually:
i. Insert the backup batteries (where required) and plug the adapter into the jack.
ii. Point the wind vane towards the north. Use a compass if necessary.
iii. Use a pin to press the "SET" key which is in the battery compartment of the wind sensor.
   Above procedure must be repeated for changing battery.

Placement tips:
- Check that wind can travel freely around the anemometer and is not distorted by nearby buildings, trees or other structures.
- For better results, place the anemometer at least 3m above local structures and obstacles. The ground creates a frictional effect to wind flow and will attenuate readings.
- Aim for maximum exposure of the anemometer to the commonest wind directions in your area.
- The official mounting location for anemometers is 10m (33 ft) above ground level in a clear unobstructed location.

Setting up the Main Console Unit
1. Open the latch at the back of the main console unit.
2. Insert 4 x "AA" size 1.5V batteries according to the polarities shown.
3. Reattach the latch.
4. You are highly recommended to connect the AC/DC adaptor. For the feature of the automatic backlight control function, the AC/DC adaptor must be used.
5. If placing the console unit on a table or horizontal surface, fold out the table stand and adjust to the optimal viewing angle.
6. If mounting the console unit on a wall or vertical surface, fold the table stand back into the unit and use the fitting provided.

Placement tips:
Make sure that the console unit is within receiving range of all remote sensors. Ideally sensors should be within the line of sight of the console unit. Transmission range may be affected by trees, metal structures and electronic appliances. Test reception before permanently mounting your weather station.

The console unit measures indoor temperature, humidity, pressure and receives signals from all remote sensors and radio-clock broadcasts. Avoid placing the console unit in the following areas:
- Direct sunlight and surfaces which radiate and emit heat.
- Near heating and ventilation devices, such as heating ducts or air conditioners.
- Areas with interference from wireless devices (such as cordless phones, radio headsets, baby listening devices) and electronic appliances.

Starting up the Main Console Unit
Once the console unit is properly powered, the display will start showing some data and weather parameters. Wait for a few minutes for the console to finish self-calibration and for the sensor readings to show up.
If "- - -" is still displayed for the sensor reading(s), check the wireless transmission path and the batteries for the corresponding sensor.
You can try to orient the antenna for a better reception.

Buttons and its control specification
The following controls are available on both the main console unit:

UP [▲]	- Switches to next mode in clockwise direction - Increment for setting parameters
DOWN [▼]	- Switches to next mode in anti-clockwise direction - Decrement for setting parameters
SET	- Rotates display for current mode - Press and hold to enter setup or change units - Confirmation for setting parameters
MEMORY	- Shows records for moon phase, temperature, humidity, rain and wind.
HISTORY	- Shows history for sea-level pressure
ALARM/CHART	- Shows time alarms and alerts for temperature, rain and wind. - Press and hold to enter alarm/alert setup - Press and hold in Pressure and Weather Forecast Mode to view different bar-charts
CHANNEL	- Changes temperature and humidity display to selected channel - Press and hold to enable cycling display of channel temperature and humidity
LIGHT/SNOOZE	- Turns on backlight for 5s - Enters Snooze mode when alarm is activated

The following controls are only available on the main console unit:

LIGHT SENSOR **- AUTO, ON, OFF**	- Toggles the light sensor function to automatic, on or off
SENSITIVITY **- HIGH/LOW**	- Adjusts the sensitivity of the light sensor

Navigating between Different Modes
There are 7 modes available on the main console unit, and each one displays a different category of data. When display is in a certain mode, its corresponding icon will start flashing.

To navigate between the different modes from the main console unit, press UP [▲] to cycle through the modes in a clockwise direction or DOWN [▼] to cycle through the modes in an anti-clockwise direction.

MOONPHASE **WEATHER** **Moon Phase and Weather**
- Current pressure, trend, and history bar-chart
- Weather forecast

PRESSURE **Pressure**
- Sea Level Pressure, Local Pressure, and Altitude

TIME **Time and Alarm Mode**
- Radio Controlled clock showing current time and calendar
- Single alarm, weekday alarm and pre-alarm

Sunrise/Sunset Mode
- Sunrise and sunset times
- Longitude and Latitude of local area

Temperature and Humidity Mode
- Temperature and humidity trend and readings for indoor and selected channel
- Comfort level
- Dew point
- Temperature alerts

RAIN **Rain Mode**
- Precipitation amount for last hour, last 24 hour, yesterday, last week and last month
- Rainfall alert

WIND **Wind Mode**
- Wind Chill
- Temperature at place of anemometer
- Wind direction
- Wind speed
- Wind gust
- Alert for wind speed and wind gust speed

Customizing your Weather Station
To fully customize the weather station to your local settings and personal preferences, the following settings are required. Please refer to the appropriate sections for detailed instructions.

Required:
- Setting Pressure Parameters during Initial Start-Up (Pressure and Weather Forecast Mode P.**40**)
- Setting up the Time, Date and Language (Clock and Alarm Mode: P.**43**)
- Setting up the Location Data (Sunrise/Sunset Mode: P.**45**)

Optional:
- Setting up the Time Alarms (Clock and Alarm Mode: P.**43**)
- Setting up the Temperature Alerts (Temperature and Humidity Mode P.**46**)
- Setting up the Daily Rainfall Alerts (Rain Mode P.**48**)
- Setting up the Wind Alerts (Winds Mode: P.**49**)

Viewing Pressure and Altitude Data
In Pressure and Weather Forecast Mode, each press of **SET** rotates display between:
- Sea level pressure
- Local pressure
- Local altitude

Setting the Sea Level Pressure
1. In Pressure and Weather Forecast Mode, press **SET** until the sea level pressure is displayed.
2. Press and hold **SET**. The Sea Level Pressure display should be flashing.
3. Set Sea Level Pressure:
   Press the button [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press **SET** to confirm your selection.
4. Upon completion the display will be returned to Pressure and Weather Forecast Mode.

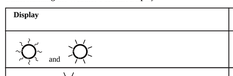
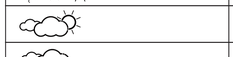
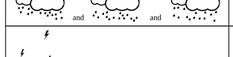
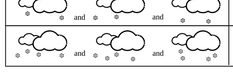
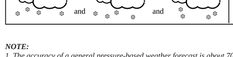
Setting the Pressure and Altitude Units
1. In Pressure and Weather Forecast Mode, press **SET** until local pressure is displayed.
2. Press and hold **MEMORY**. The pressure unit should be flashing.
3. Set Local Pressure Units:
   Press the button [▲] or [▼] to adjust value.
   Press **SET** to confirm your selection.
4. Set Altitude Units:
   Press the button [▲] or [▼] to adjust value.
   Press **SET** to confirm your selection.
5. Set Sea-Level Pressure Units:
   Press the button [▲] or [▼] to adjust value.
   Press **MEMORY** to confirm your selection.
6. Upon completion the display will be returned to Pressure and Weather Forecast Mode.

Viewing the Sea Level Pressure History
1. In all modes, pressing **HISTORY** will toggle the sea level pressure display.
2. When sea level pressure is displayed, press **HISTORY** repeatedly to view sea level pressure data for each of the last 24 hours.
3. If no buttons are pressed for 5s, the display automatically returns to Pressure and Weather Forecast Mode.

Viewing the Pressure/ Temperature/ Humidity Bar-Charts
The bar-chart on the display can be configured to display the history data for sea-level pressure, temperature or humidity for channel 1.
In Pressure and Weather Forecast Mode, press and hold **ALARM/CHART** to toggle the bar-chart between:
- Sea-level pressure ("PRESSURE" should be displayed)
- Temperature (Thermometer icon and "CH1" should be displayed)
- Humidity (RH icon and "CH1" should be displayed)

Viewing Moon Phase History and Forecast
1. In Pressure and Weather Forecast Mode, press **MEMORY**.
2. "+ 0 days" should be flashing.
3. View Moon Phase History / Forecast:
   Press **UP** or **DOWN** to choose number of days forward (+ days) or backward (- days) from current date. Press and hold either button for fast advance.
   The corresponding moon phase will be shown.
4. To exit, press **MEMORY**.
   Otherwise, if no buttons are pressed for 5s the display automatically returns to Pressure and Weather Forecast Mode.

Understanding the Weather Forecast Display

Display	Weather Forecast Status
	Sunny
	Partly Cloudy
	Cloudy
	Light Rain
	Heavy Rain
	Unstable Weather
	Light Snow
	Heavy Snow

NOTE:
1. The accuracy of a general pressure-based weather forecast is about 70%.
2. The weather forecasts. It may not necessarily reflect the current situation.
3. The "Sunny" icon, as applies to night time, implies clear weather.

LED Backlight Options
The backlight of the main console unit can be turned permanently on/off or automatically toggled when environment lighting level is low. Use the light sensor switch at the back of the unit to select lighting preferences.

For the automatic backlight function, the sensitivity of the light sensor can be adjusted to high or low with the sensitivity switch also on the back of the console unit.

Note: Console unit must be powered with AC/DC adaptor for automatic control function

LINKING THE WEATHER STATION TO A COMPUTER
Note:
The required PC software can be downloaded free from the download page of the TFA homepage (www.tfa-dostmann.de). The software's manual is included within the software.

Possible storage of 3000 sets of data, a set of data is a recording of information at that point in time from all sensors.
• Install the software with the weather station according to the instructions on the software manual.
  Connect the main console unit with the computer using the USB cable provided.
• Minimum system requirement: Windows 98 or above.

Using the Different Weather Modes
Pressure and Weather Forecast Mode
This part of the display indicates the current pressure, sea level pressure, weather forecast, moon phase and pressure trend.
A number of historical statistics can also be viewed, such as the sea-level pressure values for the last 24 hours, moon phase for the previous and next 39 days, as well as a pressure/ temperature/ humidity history bar-chart.
Pressure values may be displayed inHg, hPa/mBar or mmHg, and altitude values may be displayed in meters or feet.

Accessing Pressure and Weather Forecast Mode
From the main console unit: Press the button [▲] or [▼] until the weather forecast icon **WEATHER** and **PRESSURE** on the upper left of the display starts flashing.

Setting Pressure Parameters during Initial Start-Up
During the initial start-up of the main console unit, all functions in Pressure and Weather Forecast mode will be locked until the pressure settings are configured.
1. Choose Pressure Units:
   The unit icon "inHg" or "mmHg" or "hPa/mBar" should be flashing. Press the button [▲] or [▼] to select pressure unit as inHg, hPa/mBar or mmHg
   Press **SET** to confirm your selection.
2. Choose Altitude Units:
   Press the button [▲] or [▼] to select altitude unit as feet or meters.
   Press **SET** to confirm your selection.
3. Set Altitude:
   Press the button [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press **SET** to confirm your selection.
4. Upon completion the display will be returned to Pressure and Weather Forecast Mode.

Note: After initial start-up the altitude cannot be adjusted again until the main console unit is restarted.

Understanding the Moon Phase Diagram

Clock and Alarm Mode
The main console unit can be configured to display the time, calendar or UTC time. There are three time alarms available on the console unit:
Single alarm: activated once at specified time
Weekday alarm: activated everyday from Monday to Friday at specified time
Pre-alarm: activated at specified time interval (Fixed 30 min) ahead of weekday alarm, if channel 1 temperature falling to +2 °C or below.
The snooze duration for the above alarms can also be programmed (0-15 min).

Accessing Clock and Alarm Mode
From the main console unit: Press the button [▲] or [▼] until the Time Icon **TIME** starts flashing.

Setting up the Time, Date and Language
1. In Clock and Alarm Mode, press and hold **SET** to enter clock and calendar setup.
2. The day of week should start flashing in the display.
   Set Language:
   Press the button [▲] or [▼] to select language for day of week: English, German, French, Italian, Spanish or Dutch
   Press **SET** to confirm your selection.
3. Select City Code:
   Press the button [▲] or [▼] to select city code for your local area. Refer to P.54 for a list of available codes.
   Press **SET** to confirm your selection.
4. (if USR was chosen for city code) Set Minute for Latitude:
   You will be asked to enter your latitude in minutes (').
   Press the button [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press **SET** to confirm your selection. Repeat above procedure to set seconds for latitude, minutes for longitude and seconds for longitude.
5. (if USR was chosen for city code) Set Time Zone:
   Press the button [▲] or [▼] to adjust value in resolution of 30 min. Press and hold either button for fast advance.
   Press **SET** to confirm your selection.
6. (if USR was chosen for city code or city is in a DST zone)
   Set Daylight Saving Time Option:
   Press the button [▲] or [▼] to turn DST option on or off. Press and hold either button for fast advance.
   Press **SET** to confirm your selection.
7. Repeat the above instructions to set year, month, day, calendar display format (day/month or month/day), time display format (12 hr/ 24 hr), local hour and local minutes.
8. Upon completion the display will return to normal Clock and Alarm Mode.

Note: Press and hold **SET** anytime during the setup to return to normal Clock and Alarm Mode. All settings made will be discarded.

Rotating between Different Clock/Calendar Displays
In Clock and Alarm Mode, each press of **SET** rotates clock display between:
- Hour: Minute for UTC (Coordinated Universal Time)
- Hour: Minute: Weekday
- Hour: Minute: City
- Hour: Minute: Second
- Month: Day: Year (or Day: Month Year depending on settings)

Activating/Deactivating the Time Alarms
1. In Clock and Alarm Mode, each press of **ALARM/CHART** rotates clock display between:
- Weekday Alarm Time (displays OFF if weekday alarm deactivated)
- Single Alarm Time (displays OFF if single alarm deactivated)
- Pre-Alarm Time (displays OFF if pre-alarm deactivated)
2. When the above alarms are displayed, pressing the button [▲] or [▼] will activate/deactivate the corresponding alarm.

Note: Press **SET** anytime during alarm selection mode to return to normal clock display.

Setting up the Time Alarms
1. In Clock and Alarm Mode, press **ALARM/CHART** to select alarm which you wish to configure.
2. Press and hold **ALARM/CHART** until hour starts flashing in the display
3. Set Alarm Hour:
   Press the button [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press **ALARM/CHART** to confirm your selection.
4. Set Alarm Minutes:
   Press the button [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press **ALARM/CHART** to confirm your selection.
5. Set Duration of Snooze Function (all three alarms share same snooze time duration):
   Press the button [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press **ALARM/CHART** to confirm your selection.
6. Upon completion the display will be returned to the alarm selection screen.

Note: Pre-alarm cannot be activated if weekday alarm or single alarm is not enabled.

Disabling/Entering Snooze when Time Alarms are Activated
To Enter Snooze:
Press **LIGHT/SNOOZE** to enable snooze function.

Note: Alarm will automatically enter snooze mode if no key is pressed after the alarm sounds for 2 minutes. This will occur for a maximum of three times.

To Disable Alarm(s):
Press **ALARM/CHART** to disable the alarm (s).

Note: For weekday alarm, pressing **ALARM/CHART** will only disable the alarm for the current day. The alarm will be activated again the next day (if it falls within Monday to Friday).

Activating/Deactivating Radio Clock Reception
The main console unit synchronizes the time and date with radio clock broadcasts to maintain atomic clock precision.

To turn this function on/off:
Press and hold the button [▲].
If RC reception is activated, a tower icon will start flashing beside the clock icon.
If RC reception is deactivated, the triangular tower icon will disappear.

Icon	RC Reception Strength
(Flashing)	Undefined data
	Reception failed for 24 hours
	Weak signal, but can be decoded
	Strong signal

Note: The radio controlled signal for time (DCF 77) is transmitted from the central atomic clock in Frankfurt/Main in short intervals. It has a reception range of approx. 1500 km. Obstructions such as concrete walls can reduce the signal range.

Sunrise/Sunset Mode
The main console unit computes the sunrise and sunset times from the user-configured location data. This includes the longitude, latitude, time zone and DST (Daylight Saving Time). Choosing a suitable city code for your area will automatically generate the correct values for the location data. Should you wish to input your own location data or if a suitable city code could not be found, choose "USR" as the city code during setup.
A searching function is also available, which allows the sunrise/sunset times for different dates to be viewed.

Accessing Sunrise/Sunset Mode
From the main console unit: Press the button [▲] or [▼] until the sunrise and sunset icons on the lower left of the display start flashing.

Setting up the Location Data
1. In Sunrise/Sunset Mode, press and hold **SET** to enter location data setup.
2. The city code in the Time and Alarm display should start flashing.
   Set City Info:
   Press the button [▲] or [▼] to select city code for your local area. Refer to P.54 for a list of available codes. The corresponding longitude and latitude will be shown along with the city.
   Should you wish to input your own geographical coordinates, choose "USR" as the city code
   Press **SET** to confirm your selection.
3. If "USR" was chosen, you will be asked to input your geographical coordinates.
   Set Degree of Latitude:
   Press the button [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press **SET** to confirm your selection.

4. Repeat above procedure to set minute of latitude, degree of longitude, minute of longitude, time zone of the city, and DST selection.
5. Upon completion the display will be returned to Sunrise/Sunset Mode.

Note: Press and hold **SET** anytime during the setup to return to normal Clock and Alarm Mode. All settings made will be discarded.

Viewing the Location Data
In Sunrise/Sunset Mode, each press of **SET** rotates display between:
- Time and sunrise/ sunset Times
- Calendar and sunrise/ sunset Times
- Calendar and longitude/ latitude

Viewing Sunrise/Sunset Times for Different Dates
1. In Sunrise/Sunset Mode, press **MEMORY**.
2. The date should be flashing.
   Press the button [▲] or [▼] to adjust date. Press and hold either button for fast advance.
   The corresponding sunrise and sunset times will be displayed for the selected date.
3. Press **MEMORY** or **SET** to return display to Sunrise/Sunset Mode.

Understanding the Sunrise/Sunset Display
The sunrise time being displayed differs during the morning and the afternoon/night.
From 12 am to 12 pm: The sunrise time for the current day will be displayed.
From 12 pm to 12 am: The sunrise time for the next day will be displayed. "NEXT DAY" icon will be displayed above the sunrise time.

At certain locations (especially those at high latitudes), sunrise and sunset events may not occur within a 24 hour time frame.

Display	Sunrise status	Display	Sunset status
FULL	Sunrise at previous day	FULL	Sunset at next day or later
----	No sunrise for the whole day	----	No sunset for the whole day

Temperature and Humidity Mode
The weather station supports up to 5 remote thermo-hygrometer sensors, each sensor corresponding to a separate channel for the temperature and relative humidity display. The temperature may be shown in degrees Celsius °C or degrees Fahrenheit °F. The trend (rising, steady or falling) of all values is also indicated on the display.
The main console unit uses the indoor temperature and humidity data to compute a comfort level rating of Wet, Comfort or Dry.
A temperature alert function is available for each channel. It can be programmed to sound if the channel temperature exceeds or falls below the pre-configured upper and lower limits.

Note: The temperature alerts have a 0.5 °C hysteresis to prevent the alerts from sounding constantly due to small fluctuations near the alert value. This means that after the temperature reaches the alert value, it will have to fall below the alert value plus the hysteresis to deactivate the alert.

Accessing Temperature and Humidity Mode
From the main console unit: Press the button [▲] or [▼] until the OUT Icon **OUT** and IN icon **IN** on the upper right of the display starts flashing.

Viewing Temperature and Humidity Display for each Channel
For Static Display:
In Temperature and Humidity Mode, each press of **CHANNEL** rotates display between different channels.

For Cycling Display:
To enable automatic rotating between different channel displays, press and hold **CHANNEL**, until the icon is displayed. Each valid channel will now be alternately displayed for 5s.

Rotating Between Temperature and Dew Point Display
In Temperature and Humidity Mode, each press of **SET** rotates temperature display between:
- Temperature and Relative Humidity
- Dew Point Temperature and Relative Humidity

Setting Units for Temperature Display (°C or °F)
In Temperature and Humidity Mode, press and hold **SET** to convert units between degrees Celsius °C and degrees Fahrenheit °F.

Activating/Deactivating the Temperature Alerts
1. In Temperature and Humidity Mode, each press of **ALARM/CHART** rotates channel temperature display between:
- Current Temperature for corresponding channel
- Upper Temperature Alert (displays OFF if deactivated): [▲] icon displayed
- Lower Temperature Alert (displays OFF if deactivated): [▼] icon displayed
2. When the above alerts are displayed, pressing the button [▲] or [▼] will activate/deactivate the corresponding alert.

Setting up the Temperature Alerts
1. In Temperature and Humidity Mode, press **ALARM/CHART** to select alarm which you wish to configure.
2. Press and hold **ALARM/CHART** until channel temperature and [▲] or [▼] icon starts flashing in the display.
3. Set Value for Temperature Alert:
   Press the button [▲] or [▼] to adjust value. Press and hold either button for fast advance.
   Press **ALARM/CHART** to confirm your selection.
4. Upon completion the display will be returned to the temperature alert selection screen.

Disabling when Temperature Alarms are Activated
To Disable Temperature Alarm(s):
Press **ALARM/CHART** to disable the alarm (s).

Viewing the Max/Min Channel Temperature and Humidity
In Temperature and Humidity Mode, each press of **MEMORY** rotates channel temperature and humidity display between:
- Current temperature and humidity at remote sensor
- Minimum temperature and humidity at remote sensor
- Maximum temperature and humidity at remote sensor

Resetting the Max/Min Channel Temperature and Humidity Memory
In Temperature and Humidity Mode, press and hold **MEMORY** to clear memory for all channels.

Remote Sensor Status
The wave icon above the current channel display shows the connection status of the corresponding remote sensor:

Icon	Status
flashing	Searching for remote sensor signals
CH	Corresponding remote sensor successfully linked
CH	No signals received for more than 15 minutes

Activating Main Console Unit to Search for All Remote Sensor Signals
The main console unit may be manually activated to search for signals from all remote sensors.
Press and hold the button [▼] to enforce a search.

Rain Mode
The main console unit records the total amount of rainfall for the last hour, last 24 hours, yesterday, last week and last month. The rainfall may be displayed in mm or inches.
A daily rainfall alert function is available which can be programmed to sound if the daily rainfall exceeds a pre-configured limit.

Accessing Rain Mode
From the main console unit: Press the button [▲] or [▼] until the RAIN icon **RAIN** on the display starts flashing.

Viewing Rain Statistics
In Rain Mode, each press of **SET** or **MEMORY** rotates display between different rain statistics:
- Last hour
- Last 24 hour
- Yesterday
- Last week
- Last month

Tip: For an estimation of the rain rate, the Last Hour rainfall value can be understood as "inch/hr" or "mm/hr".

Resetting the Rainfall Statistics Memory
In Rain Mode, press and hold **MEMORY** to reset all rainfall statistics.

Setting Units for Rain Display (inch or mm)
In Rain Mode, press and hold **SET** to convert units between mm and inches.
"mm" is equal to "1/m²"

Activating/Deactivating the Daily Rainfall Alert
1. In Rain Mode, each press of **ALARM/CHART** rotates display between the current rainfall statistics and the daily rainfall alert ("ALARM HI" will be displayed).
If the alert is deactivated, "OFF" will be shown, otherwise the rainfall alert value is shown.
2. When the rainfall alert is displayed, pressing the button [▲] or [▼] will activate/deactivate it.