



**Weather Forecast RF Wall Clock  
with Remote Thermometer  
Model: JMR818WF  
User Manual**



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# WEATHER FORECAST RF WALL CLOCK WITH REMOTE THERMOMETER

*JMR818WF*

## User Manual

### INTRODUCTION

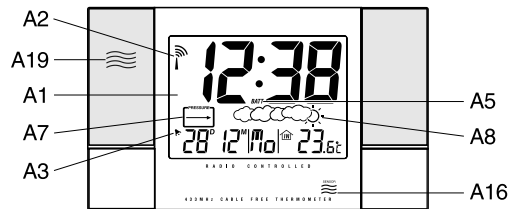
Congratulations for purchase of the Weather Forecast RF Wall Clock with Remote Thermometer (JMR818WF).

The JMR818WF is a multifunction radio frequency (RF) controlled clock. When brought within a 1500km radius of Frankfurt, Germany a radio signal generated from (DCF77) will emit signals that can accurately synchronize this device to the current time and date.

Also, the JMR818WF displays outdoor and indoor temperature and uses barometric information to indicate weather forecasts and atmospheric pressure trends.

Included in this package is a remote thermo-sensor. Place the thermo-sensor in a sheltered outdoor location within a 30-meter radius of the main unit and it will transmit outdoor temperature readings to the JMR818WF.

Other features include a daily crescendo alarm with an eight-minute snooze function, and extra-large display.



### DESCRIPTION OF PARTS

#### A MAIN UNIT

##### A1 Extra-large liquid crystal display (LCD)

- Displays the time, date and day-of-the-week
- Alarm status, and alarm-set time
- Weather forecast and pressure trends
- In/outdoor temperatures in °C

##### A2 [ ] Radio-reception signal

Indicates the condition of radio reception

##### A3 [ ] Alarm-on icon

Appears when the alarm is activated

##### A4 [ ] Alarm icon

Appears when the alarm time is displayed

##### A5 [ ] Battery-low indicator

Activates when the battery power is low





##### A6 [ ] Battery-low indicator (remote sensor)

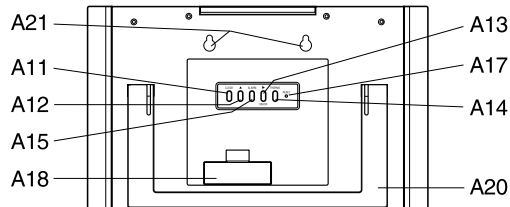
Activates when the remote-sensor battery power is low

##### A7 Trend indicator

Indicates the trend of pressure changes

##### A8 Weather-forecast icons

[     ] Displays Weather forecasts as sunny, partly cloudy, cloudy and rainy



##### A9 Bottom line of LCD showing alarm time and day-of-the-week and outdoor temperature

User-select display option

##### A10 [ ( ( SNOOZE ) ) ] Alarm-delay button

Activates the snooze function

##### A11 [ ] CLOCK button

Toggles between "seconds" and day-of-the-week displays or activates the calendar-clock setting mode

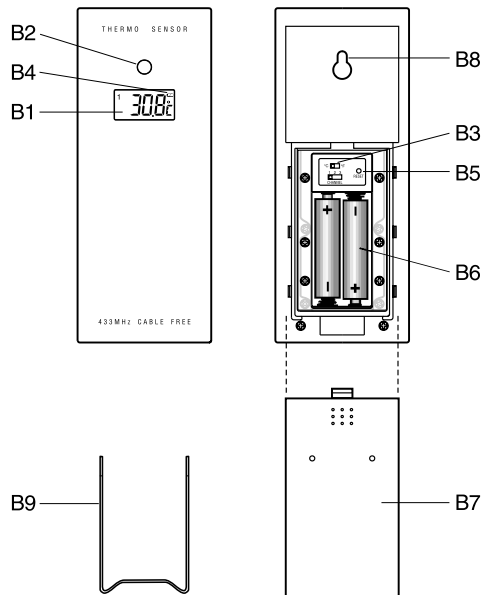
##### A12 [ ] UP button

Increases the value of a setting

- A13 [ ON/OFF ] button**  
Activates and deactivates the alarm
- A14 [ THERMO ] button**  
Alternates temperature display between indoor, outdoor, and combined in / outdoor viewing display
- A15 [ ALARM ] button**  
Displays the alarm-time or sets the alarm status
- A16 Sensor**  
For indoor temperature reading
- A17 [ RESET ] Button**  
Resets the unit by returning all settings to their default values
- A18 Battery Compartment**  
Accommodates four UM4 or AAA-size batteries
- A19 Alarm**  
Sound vents for daily alarm
- A20 Table Stand**  
For placing the unit on a flat surface
- A21 Wall-Mount Hole**  
For mounting the unit on a wall

## B REMOTE THERMO SENSOR

- B1 LCD**  
Displays the current temperature monitored by the remote unit
- B2 LED indicator**  
Flashes when the remote unit transmits a reading
- B3 °C/°F slide switch**  
Selects between Centigrade (°C) and Fahrenheit (°F)
- B4 [ Battery-low indicator ]**  
Activates when the battery power is low
- B5 Reset button**  
Returns all settings to default values
- B6 Battery compartment**  
Accommodates two UM-4 or AAA size alkaline batteries
- B7 Battery door**
- B8 Wall-mount holder**  
Supports the remote unit in wall-mounting
- B9 Removable table-stand**  
For standing the remote unit on a flat surface



## BATTERY INSTALLATION AND REMOTE THERMO-SENSOR SETUP

Follow this step-by-step procedure for installing batteries and setting up the remote-sensor unit. Successful setup should ensure that temperature signals are properly received.

*Note: The effective range may be limited by building materials and the position of either the main unit or the remote thermo-sensor unit. Try various set-up arrangements for best result.*

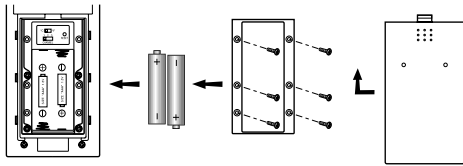
### Setting up the thermo-sensor unit:

The remote unit uses two (2) UM-4 or “AAA” size batteries. Installation:

1. Remove the outer battery compartment door.
2. Remove inner screws and open the inner clearplastic compartment door.
3. Select the temperature display unit on the °C/°F slide switch.



4. Insert the batteries strictly according to the polarities shown.
5. Replace the battery compartment door and secure its screws.



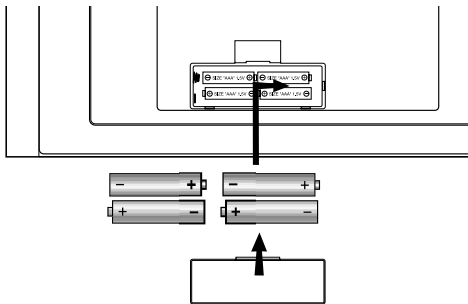
**Note:** Though the sensor is splash proof, and is meant for use outside, it should be placed away from direct sunlight, rain, or snow.

Once the batteries have been inserted into the remote thermo-sensor unit, batteries can now be inserted into the main unit.

The JMR818WF (main unit) requires four (4) UM4 or “AAA” size batteries for operation.

**How to insert batteries into the main unit:**

1. Press the door tab and click-open the door.
2. Insert the batteries strictly according to the polarities shown therein.



3. Replace the door so that it clicks into place.

**Note:** If not disposed of properly, batteries can be harmful. Protect the environment by taking exhausted batteries to authorized disposal stations.

**Note:** [ **BATT** ] Battery-low indicator  
Replace the batteries when the battery-low indicator lights up.

**ABOUT RADIO RECEPTION**

The JMR818WF is a radio frequency (RF) controlled clock. When located within a 1500km radius of radio signal (DCF77) at Frankfurt, Germany, the clock time will automatically synchronize with DCF77 time-signal transmission. The benefit of a RF controlled clock is that highly-accurate time is maintained and manual adjustments to the time and date are not be required.

When the batteries are first installed, the JMR818WF will automatically search for a radio signal.

When in search mode, the antenna icon [ ] will blink. This process takes between two (2) and (10) minutes. After initial search, short periodic reception-signal scans will commence several times a day.

The antenna icon indicates the quality of reception.

	STRONG
	WEAK
	NO RECEPTION
	RECEIVING

**Interference**

Reception can be affected by a number of factors. For best reception, place the device away from metal objects and electrical appliances.

**Note:** Interference from sources such as TV sets can affect the signal. If, after batteries have been inserted for ten minutes, the DCF77 signal is not received, then set the time manually (see section: How To Set The Calendar Clock Manually).

**“SECONDS” AND DAY-OF-THE-WEEK DISPLAY**

The “second” and the day-of-the-week share the same section of the display.



*day-of-the-week display*



*“second” display*

The day-of-the-week is displayed as an abbreviation in four languages.

Language	Day-of-the-week						
	Monday	Tuesday	Wed.	Thursday	Friday	Saturday	Sunday
English	Mo	Tu	We	Th	Fr	Sa	Su
German	Mo	Di	Mi	Do	Fr	Sa	So
French	Lu	Ma	Me	Je	Ve	Sa	Di
Italian	Lu	Ma	Me	Gi	Ve	Sa	Do

**To change the “seconds” display to the day-of-the-week display:**

1. When the “seconds” are displayed, press **CLOCK** once.

**To change the day-of-the-week display to the “seconds” display:**

1. When the day-of-the-week is displayed, press **CLOCK** once.

## CALENDAR AND ALARM TIME DISPLAY

The calendar and the alarm-time share the same section of the display.

The calendar is displayed in a day-month format.



*calendar mode*



*alarm mode*

**To change the calendar display to the alarm-time display:**

2. When the calendar is displayed, press **ALARM** once.

**To change the alarm-time display to the calendar display:**

2. When the alarm time is displayed, press **ALARM** once.

## HOW TO SET THE CALENDAR CLOCK MANUALLY

When the unit is outside of the 1500km radius of the radio signal DCF77 generated from Frankfurt, Germany, the unit may require manual setting.

*Note: The RF controlled mechanism overrides manual settings. If manual settings are made, the clock will periodically adjust the time to what is indicated by the radio signal.*

**To manually set the clock:**

1. Press **CLOCK** and hold for two seconds. The hour digits will start to flash.
2. Enter the correct month using the [ ▲ ] button. Hold to rapidly increase the value.
3. Press **CLOCK** to confirm and proceed to set the minutes. Again, use the [ ▲ ] button to select the correct minutes.
4. Press **CLOCK** to confirm and proceed to enter the current date and the current month.
5. Next, select a language for the days of the week. To choose a language press [ ▲ ] button.
6. Finally, press **CLOCK** to proceed to the day-of-the-week. Proceed in the same manner.
7. When finished, press **CLOCK**. The time and date are now set.

## TO SET AND ACTIVATE THE ALARM

The calendar display and the alarm display share the same section of the display.

**To set the alarm-time:**

1. Press and hold **ALARM** for two seconds, the alarm time will flash.
2. Press [ ▲ ] to enter a value for the hour digits. To confirm, press **ALARM** and proceed to the minute digits.
3. Again, press [ ▲ ] to enter a value for the minute digits. Press **ALARM** to confirm.

**To activate the alarm:**

Press [ ▶ ON/OFF ]. When the [ ▶ ] icon is visible on the display, the alarm is set and will activate at the set time.

To deactivate the alarm, press [ ▶ ON/OFF ] once.

## ALARM AND SNOOZE FUNCTION

When the alarm function is active, the unit will alarm at the set time.

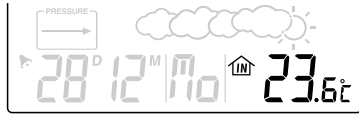
Resulting from the crescendo function, the alarm initially starts gently and increases in intensity in three stages. Without interruption, the alarm will activate for (2) two-minutes.

To stop the alarm, press any key. However, if the [ ( SNOOZE ) ] is pressed, the snooze function will be triggered. The alarm will stop for eight minutes before activates again.



## TEMPERATURE DISPLAY

The JMR818WF displays temperature in Centigrade (°C). A user-select option lets the user choose between indoor, outdoor or alternating displays.



**indoor temperature display**



**outdoor temperature display**

To display either the indoor, outdoor, or alternating temperature displays:

- Press **THERMO** to alternate between the temperature displays.

*Note: The alternating display will alternate between the indoor and outdoor display about every 9-seconds. The IN and OUT symbols will flash to indicate that the unit is in the alternating temperature display.*

The outdoor temperature display has a kinetic-way display.

The kinetic-wave display shows the signal-receiving status by the main unit. There are three possible forms.

The unit is in searching mode.	•
Temperature readings are securely registered.	•
No signals	•

## SENSOR TRANSMISSION STATUS

If blanks "----" appear on the outdoor temperature display of the main, then the unit is not receiving a signal from the remote thermo sensor. The user may be able to receive a signal by forcing a signal search.

### To force a remote sensor signal:

Press and hold [THERMO] for 2-seconds. The unit will search for a remote thermo-sensor signal.

Search mode will last for 67-seconds. If the unit still cannot receive a signal, check the batteries to ensure they are properly installed and have ample power. Try repositioning the units as they may be having temperature transmission block as a result of interference.

### Note:

Reasons for not receiving a signal from the remote thermo sensor may include:

1. The batteries of the remote sensor, the main unit, or both may be low. Battery-low icons should indicate that battery power is low and the batteries require changing.
  - When the temperature falls below freezing point, the batteries will freeze. Frozen batteries will have a lower voltage and result in a lower transmission radius.
2. The transmission range is too far.
  - Shorten the distance.
3. The transmission path is cluttered with obstacles and interference.
  - Shorten the distance or reposition the remote sensor or the main unit.

## HOW TO READ THE PRESSURE TREND

The JMR818WF gives a pressure trend for the last hour. As illustrated below, a rising trend (arrow) indicates improving weather. Deteriorating weather conditions are indicated with a falling trend (arrow).

Arrow Indicator			
Pressure Trend	Rising	Steady	Falling

## WEATHER FORECAST FUNCTION

The JMR818WF detects barometric pressure changes and displays the illustrated weather symbols that indicate weather forecasts for 12 to 24 hours. The radius of the forecast is approximately 30 - 50 km.

Indicator displays on the unit				
Forecast	Sunny	Slightly Cloudy	Cloudy	Rainy

**Important:**

1. The accuracy of a weather forecast, when only using pressure trends, is approximately 70 to 75 percent.
2. The weather forecast symbols may not reflect current weather condition. The symbols are forecasting the future.
3. A 'SUNNY' forecast covering the nighttime reflects fine clear weather.

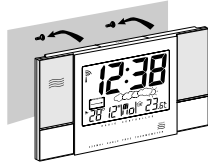
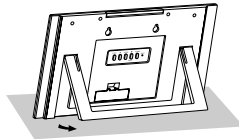
**HOW TO RESET THE UNIT**

Press **RESET** to return all settings to the factory values, which are 1-1 (1st of January) for date, 00:00 for time and 0:00 for the alarm that is deactivated.

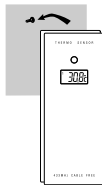
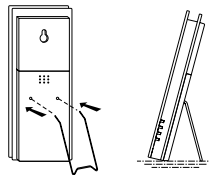
The button is required only when the unit is not operating in a favorable way, such as in the rare case of a malfunction.

**HOW TO WALL MOUNT OR USE TABLE STAND****MAIN UNIT**

Flip open the table stand to place the unit on a steady, flat surface. Or you can use the recessed holes on the back to mount it on a wall.

**Wall-mount****Table Stand****REMOTE THERMO SENSOR**

The unit can be wall-mounted using its recessed screw hole or place on a flat surface using the removable stand.

**Wall-mount****Table Stand****MAINTENANCE**

When handled properly, this unit is engineered to give you years of satisfactory service.

**Here are several product-care suggestions:**

1. Do not immerse the unit in water. If the unit comes in contact with a liquid, dry it immediately with a soft lint-free cloth.
2. Do not clean the unit with abrasive or corrosive materials. Abrasive cleaning agents may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive force, shock, dust, temperature, or humidity. Such treatment may result in malfunction, a shorter electronic life span, damaged batteries, or distorted parts.
4. Do not tamper with the unit's internal components. Doing so will terminate the unit's warranty and may cause damage. The unit contains no user-serviceable parts.
5. Only use new batteries as specified in this instruction manual. Do not mix new and old batteries as the old batteries may leak.
6. Read this instruction manual thoroughly before operating the unit.

**SPECIFICATIONS****MAIN UNIT****Clock Functions**

Radio Control	: Auto synchronizes current time and date by Radio signal generated from Germany DCF77
Calendar	: Day of week in English / German / French / Italian, Current date / month format
Clock Time	: 24-hour format
Alarm Duration	: 2-minute crescendo
Snooze	: 8 minutes
Accuracy	: +/- 0.5 second/day

**General specification**

Battery Type	: 4 piece of UM4 or "AAA" size 1.5V battery
LCD Dimension	: viewing area - 155 x 107 mm
Unit Dimension	: 298 x 177 x 24 mm (H x W x T)
Unit Weight	: Approx. 660 g (not including batteries)

**Temperature Measurement**

Operating Temperature	: -5°C to 50°C (23.0°F to 122°F)
Temperature Resolution	: 0.1°C to (0.2°F)



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### REMOTE THERMO SENSOR

- Displayed range : -50.0°C to +70.0°C  
(-58.0°F to 158.0°F)
- Proposed operating range : -20.0°C to +60.0°C  
(-4.0°F to 140.0°F)
- Temperature resolution : 0.1°C (0.2°F)
- RF Transmission : 433 MHz  
Frequency
- RF Transmission Range : Maximum 30 meters
- Temperature sensing cycle : Approximately 30 seconds
- Power : use two (2) UM-4 "AAA"  
1.5V alkaline battery
- Weight : 83gm (without batteries)
- Dimension : 146 x 58 x 20 mm (H x W x D)

### CAUTION

- The content of this manual is subject to change without further notice.
- Due to printing limitation, the displays shown in this manual may differ from the actual display.
- The manufacturer and its suppliers held no responsibility to you or any other person for any damage expenses, lost profits or any other claim arises by using this product.
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### EC-DECLARATION OF CONFORMITY

This product contains the approved transmitter module that complies with the essential requirements of Article 3 of the R&TTE 1999 / 5 / EC Directive, if used as intended and the following standards have been applied:

#### Safety of information technology equipment

(Article 3.1.a of the R&TTE Directive)

Applied Standard **EN 60950-1 : 2001**

#### Electromagnetic compatibility

(Article 3.1.b of the R&TTE Directive)

Applied Standards **ETSI EN 301 489-1-3 (Ver.1.4.1) : 2002-08**

#### Efficient use of radio frequency spectrum

(Article 3.2 of the R&TTE Directive)

Applied Standards **ETSI EN 300 220-3 (Ver1.1.1) : 2000-09**

Additional information:

The product herewith complies with the requirements of the Low Voltage Directive 73 / 23 / EC, the EMC Directive 89 / 336 / EC and carries the CE marking accordingly.

Carmelo Cubito

Agrate Brianza (MI) / Italy January 2004

Manufacturer's EU R&TTE Representative



COUNTRIES RTTE APPROVAL COMPLIED

All EC countries, Switzerland (CH) and Norway (N)





