iROX

CELEBRATION-88
**Weather station with barometric forecast,
countdown to a target event
indoor thermo-hygrometer,
wireless outdoor thermometer , moon phase
indication and radio controlled clock**

23

Table of contents

24

1. INTRODUCTION

CELEBRATION-88 is a high quality radio controlled clock with weather forecast, thermo/hygrometer and the possibility to easily program a target event with matching text and have the remaining days, hours, minutes and seconds displayed as a 'countdown' timer.

Setting-up and using this device is easy. Please read chapters 2 and 3.
The other chapters explain a few details that might be helpful to you, for example if the radio controlled clock does not receive a signal and/or you do not live within the central European time zone.

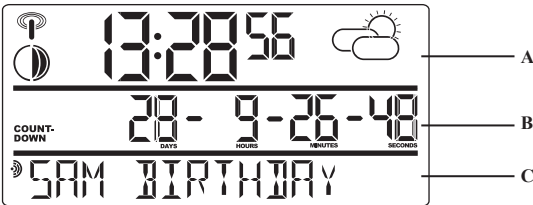In the original package you will find following parts:
• The main unit (the receiver)
• A table stand
• A wireless external sensor (transmitter)
• This Instruction Manual

25

2. OPERATING ELEMENTS

2.1 LCD (display)
All functions can be read from the liquid crystal display (LCD) in 3 windows.

— A
— B
— C

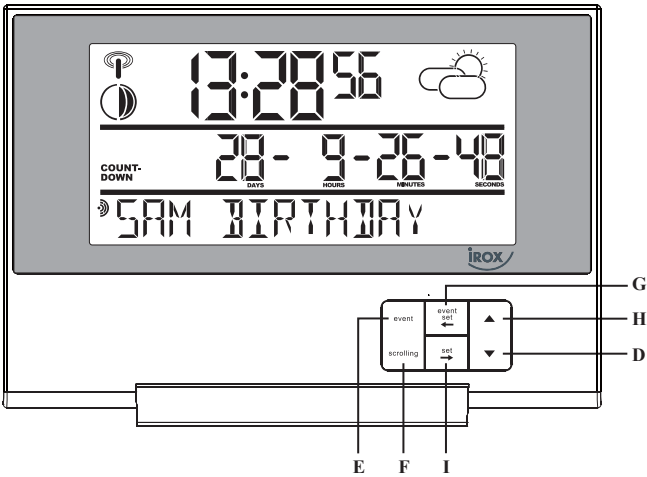**A. CLOCK with MOON PHASE and WEATHER FORECAST**

B. CURRENT DATE or TARGET DATE or COUNTDOWN TIMER

C. TICKER or TEXT with
 - EVENT
 - WEEKDAY OF THE EVENT (Selection of 19 languages)
 **- CURRENT DATE WITH CALENDAR WEEK (appears only if the current
  date is not already displayed in window B)**
 - ROOM TEMPERATURE / HUMIDITY
 - OUTDOOR TEMPERATURE

26

2.2 Buttons

— G
— H
— D

E   F   I

27

E. event button
If an event is programmed you can use this button to select one of the following display modes in **window B.**
- Current date with calendar week (standard, if no event is programmed)
- Programmed target date (event) with the hour
- COUNTDOWN timer to target date (event)

F. scrolling button
In **window C** you can display all additional information measured by or programmed in the device. Use this button to switch the ticker on or off. If the ticker is activated the symbol ⟳ will appear and every 3 seconds new information will be displayed.

G. event set ← button
• Press and hold button for 3 seconds to move to the target date setting. Please read chapter 4.4 "Target Date (Event) and Countdown" !
• Navigate backwards in the 'Event Title' setting

I. set → button
• Press and hold button for 3 seconds to move to the time setting. Please read chapter 4.3 "Time Function" !
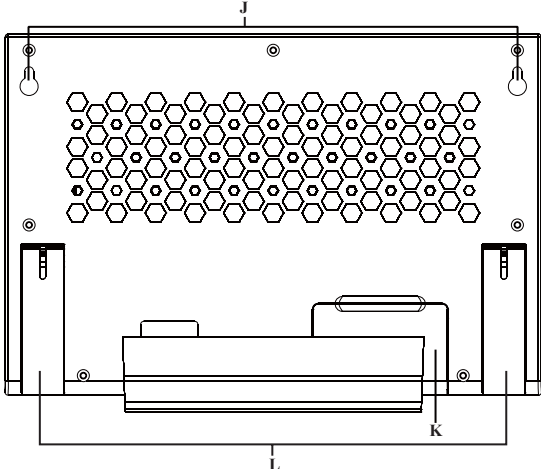• Navigate forwards in the 'Event Title' setting

H.▲ button

D.▼button
• These buttons can be used to adjust the values for all settings. (▲) increase or (▼) decrease. To quickly change a value in the setting, press and hold the ▲ or ▼ button.
• If the ticker mode is off you can also use these buttons to select available information in window C

28

2.3 Stand and battery compartment

J

L
K

J. WALL- MOUNT hole
• A recessed opening to mount the unit on a wall

K. BATTERY COMPARTMENT
• Accommodate two (2) CR2032 batteries

L. FOLD OUT TABLE STAND
In addition you will find a separate table stand, giving the unit a special elegance when positioned in a shelve or on a table.

29

2.4 Remote sensor (Temperature)
In an open and undisturbed field the measuring values can be transmitted over a distance of up to 30 meters (100 feet). The remote sensor is weatherproof and can be used both outdoors and indoors.

A. BATTERY COMPARTMENT: Designed for two AAA batteries

B. WALL MOUNTING: For mounting outdoors use the wall bracket.

30

3. SET-UP

Setting-up the CELEBRATION-88 is easy. Just follow the steps below.

1- Activate the batteries in the remote sensor
2- Position the remote sensor in the same room in a radius of about 1 meter to the display unit.
3- Activate the batteries in the display unit: First a full segment display will appear on the LCD for about 3 seconds.
4- Now the device will begin receiving the remote sensor and thereafter the time from time signal transmitter DCF77 (the corresponding symbols will blink). Wait until all information (time and temperature) are displayed correctly by the device or until all symbols have stopped blinking. This may take a few minutes.

You can now operate the device and for example enter an event with date, time and text. In chapter 4 you will find details for optional settings and also information on certain procedures.

4. EXTENDED OPERATION

> All operations on the device are carried out by pressing buttons.
> It is very important that you read chapters 2 and 3!
> In these chapters you will find **additional** information about the functions

4.1 Weather forecasts
This Irox device uses a high quality pressure sensor to measure barometric pressure and the respective changes. This information is then, using a by meteorologists specially developed algorithm, used to calculate a weather forecast for the coming 12-24 hrs. Seven different forecasts are possible:

Sunny   Heavy rain

Slightly cloudy   Snow

Cloudy   Heavy snowfall

Rain
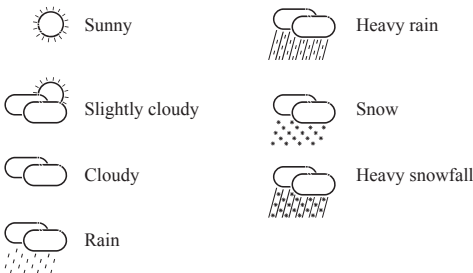
COMMENT: These calculated weather forecasts have a reliability of approx. 70%. The forecast for the coming 12-24 hrs is displayed, not the current weather. SUNNY means clear weather day and night.

4.2 Temperature / Moisture
The display unit measures the temperature and relative humidity of its location and receives an additional measurement from the remote sensor included in the delivery. The temperature is displayed in ℃.

SEARCH FOR REMOTE SENSOR
You can start the search for the remote sensor manually by pressing and holding the button ▼ for 3 seconds. The wave icon in the left corner of the window C will start to blink.

The wave icon indicates the receiving status of the remote sensor signal:

Icon	Status
☀	Searching for the remote sensor signal
🛜	Sensor signal successfully received
🛜	No signal received for over an hour

With this search procedure the device searches the same sensor that was already previously logged in. If you replace the batteries in the sensor, the sensor gives itself a new code and will then no longer be recognized by the display unit. You can resolve this problem by:
- removing the batteries from the display unit and replacing them with new ones (all settings will be lost afterwards !)

or
- if the batteries of the main unit are still O.K., repeating the logging in procedure as described above by pressing and holding the ▼ button and while the wave icon is blinking press and hold the ▼ button again for 3 seconds. The temperature indicator will start to blink indicating that a **new** sensor is being searched for and will be logged in.

The search process may be started at any time. We recommend switching off the ticker (scrolling) during the search process and leaving the outdoor temperature ("OUTDOOR") displayed in window C.

Caution: It may occur that, due to disturbances in the surroundings (i.e. TV's, energy saving lamps etc.), the sensor's signal gets lost. If this condition lasts over a longer period of time, the receiver will switch off its continuous receiving mode and after about 1-2 hours will again search for a signal.
If in the OUTDOOR line only bars appear you can manually search for the sensor, as described in this chapter.

4.3 Time function

The time signal DCF 77 is transmitted by the atomic clock in Mainflingen near Frankfurt/Main. The long-wave transmitter has a range of up to 1500 km.
If the time icon 📡 is displayed without waves you have reception problems. Please observe following points:

- There are fewer disturbances in the atmosphere during the night which increases the likeliness of reception. One reception per day is completely sufficient to ensure the preciseness of the clock by +/- 1 second
- Make sure that the device is at least 2 meters (8 feet) away from possible sources of disturbance such as TV, computer, monitor, microwave etc.
- In rooms with concrete or metal walls (e.g. cellar rooms, modern office buildings etc.) the receipt of the signal may be more difficult due to the shielding. In such cases find a better location for the device near a window. Sometimes it also helps to simply turn the device by 90°, thereby improving the alignment of the receiving antenna.

Caution: During the setting procedure as described below you will exit the setting mode if more than 1 minute passes between pressing the buttons. The settings already made up to this point will be taken over.

RADIO CONTROLLED CLOCK RECEIVING LOGIC
1. As described in chapter 3 the time transmitted by the time signal transmitter DCF77 is automatically received when the batteries are activated. During reception the 📡 icon will blink, if reception is good with waves if reception is poor without.
2. If you would like to switch the automatic time reception off and then on again you can do so with the time-setting (see below "Setting").
3. During normal operation an automatic time reception will be activated daily at 0:00 and 4:00. If the reception at 4:00 failed, another reception will start at 5:00.
4. As soon as the device has received a signal the time will be correctly adjusted and the 📡 icon is active.
5. If reception is poor the **I** icon will be displayed. You may then set the reception to **OFF** and adjust the clock manually (see below "Setting"). If you leave the reception **On**, a next reception attempt will then be activated during the night.

SETTING
You can choose between two operating modes for the clock:
1- Radio controlled clock with regular time comparisons. In between the active receptions the time runs on integrated quartz (this is a factory setting which is reactivated after every battery replacement)
2- Strictly as a quartz clock

Move to set mode with the **set** button (press and hold for 3 seconds). **On** will appear in the time display. This means the radio receiving is activated.

With the ▲/▼ buttons you can make changes to the setting, with the set button you move to the next setting.

The setting options vary depending on operating mode **On** or **OFF**

Operating mode 1 – Radio controlled clock on = **On**
- Time indication format: 24 hours or 12 hours resp. AM/PM
- Language selection of the weekday display of the programmed event
- Time zone setting (standard =0, adjustable from -9 to +9 hours):
  Time deviation as compared with the received radio time are the respectively valid time in Central Europe (Germany, France, Switzerland, Denmark etc.). If you set a time zone "ZONE" and the accordingly corrected time will appear on the time display. This is ideal for locations where the DCF77 signal is received but that have a different time such as Great Britain (-1HR) or Finland (+1HR)
Complete the setting with the **set** button
If the radio reception was reactivated (switching from **OFF** to **On**), the time signal will also be newly received after exiting the set mode.

Operating mode 2 – Radio controlled clock off = **OFF**
- Time indication format: 24 hours or 12 hours resp. AM/PM
- Language selection of the weekday display of the programmed event
- Setting the hours
- Setting the minutes
- Setting the date
We recommend this operating mode for locations where the time signal can not be received. Switching off the receiver spares the batteries.

To the language selection for the event day:
There are a total of 19 languages available. In a predetermined language block of 3 languages the weekday of the programmed event is displayed with a 3 letter abbreviation of the weekday.
The language blocks contain following 3 languages:
Deutsch – Français- Italiano
English – Espanol – Portugues
Danske/Norske – Svenska – Islenska
Nederlands – Suomalainen – Polski
Cesky – Slovencina – Magyar
Ruski – Srpski – Hrvatski (Russian and Serbian are depicted Cyrillic)

4.4 Target Date (Event) and Countdown
You can enter the time of **one** event with year, month, day and hour and in addition a corresponding text with up to 15 letters.
CELEBRATION will then countdown the days, hours, minutes and seconds from the set time to the beginning of the event (**COUNTDOWN**).
If the event takes place in a different time zone it is very important that you calculate the time difference. If for example admittance to an event is at 17:00 in London, then it is already 18:00 in Central Europe! If then for example you live in Germany or Switzerland you must enter 18:00 as start time!

When programming an event consider following questions:
- In which time zone is the event taking place?
- In which time zone do you live and what time is it on your display?
- Is daylight savings time (summer/winter) of importance?

You can enter a target date up to the year 2099. The countdown display is limited to maximum 3999 days (this means an event that is over ten years from "now"!). If you select a date beyond these 3999 days the clock will still count the time down but only in the background. The depicted 3999 days, 23 hours, 59 minutes and 59 seconds remains the same until the countdown is below this number.

Caution: During the setting procedure as described below you will exit the setting mode if more than 1 minute passes between pressing the buttons. The settings already made up to this point will be taken over.

SETTING
Press and hold the **event set** button until **TARGET DAY SET** appears in window B and the year (**YEAR**) blinks.
You can adjust the setting with the ▲/▼ buttons, use the **set** button to move to the next setting:
Month → Day → Hour → Text for the event (in window C !).
The letters for the text line are also selected using the ▲/▼ button, to move to the next character use the **set** → button. You can also use the **event set** ← button to move back in the text. Maximum 15 characters can be entered.
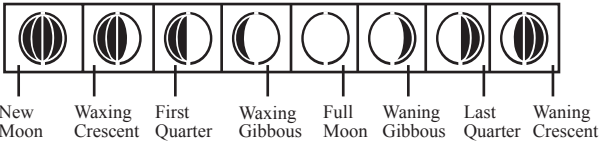Selection of characters: **A-Z, 0-9, Space** and special characters / + * '

Setting is complete when the last character in window C has been confirmed by pressing the **set** → button or if when entering the text the **set** ← button is pressed and held for 3 seconds.

WHAT HAPPENS WHEN THE COUNTDOWN IS COMPLETED ?
When the countdown reaches zero the time of the event has arrived.
All zeros of the TARGET DAY and the event text display will blink (if the ticker was activated it will stop). All buttons are now blocked with the exception of the **event set** button.
By pressing the **event set** button you can acknowledge this message and the display that was active prior to the end of the countdown will appear.
In window B **End** will now appear for **COUNTDOWN** and **TARGET DAY**.
This status will remain until midnight. At midnight the event will be deleted.
It is possible though to program a new event before midnight.

4.5 Moon phase
In steps of 3 days, the current moon phase is displayed by the following icons (the dark part is same as with the moon: dark !)

| New Moon | Waxing Crescent | First Quarter | Waxing Gibbous | Full Moon | Waning Gibbous | Last Quarter | Waning Crescent |

5. TROUBLESHOOTING

If you notice a malfunction of your device, always first check the battery please. Always replace the batteries in the display unit **and** in the remote sensor!
Also please check the following before contacting the customer service of the store where you purchased the device:

Issue	Symptom	Solution
Display unit	Radio controlled clock does not receive signal	Reposition the device. Preferably near a window and leave it there overnight. Perhaps an additional turning of the device by 90° would help.
Display unit/Remote sensor	Remote sensor is not being received	Replace batteries (in both devices!)
		Check the position of the sensor. Read the details explained below.
		Start sensor search with the ▼ button (press and hold for 3 seconds). If this is not successful repeat and while the waves in the left corner of window C are blinking press and hold the ▼ button for 3 seconds again!

Information regarding transmittal from remote sensor to display unit
• It is very important that you activate the batteries in the remote sensor BEFORE activating the batteries in the display unit. As soon as the batteries are inserted in the remote sensor it will begin sending thermo measurement data. The display unit will start receiving data as soon as its batteries are activated.
• Before mounting the sensor at its final position we strongly recommend ensuring the successful communication, which means checking the data on the display unit. To do so place the sensor within a radius of approx. one meter of the display unit. Make sure there are no sources of disturbance in the vicinity of the two devices.
• As soon as the measurement data appears on the display unit you may mount the sensor within the maximum distance of 30m at a position of your choice.

REMARK:
• Before operating the device wait until data from the sensor appears on the display unit!
• The effective receiving radius may be limited by building structures (e.g. reinforced concrete walls), metal surfaces or grates, electronic devices as well as the position of the sensor and/or the receiver.
• Caution: It may occur that, due to disturbances in the surroundings (i.e. TV's, energy saving lamps etc.), the sensor's signal gets lost. If this condition lasts over a longer period of time, the receiver will switch off its continuous receiving mode and after about 1-2 hours will again search for a signal.
• If in the OUTDOOR line only bars appear you can manually search for the sensor, as described in this chapter.

Placement of the sensor and the display unit
• Place the sensor so that the back or front side is facing the receiver. If possible avoid shields or disturbances in the line of transmission.
• The remote sensor is weatherproof. Avoid direct sunlight, rain, or snow. Preferable are measuring points in the shade, for example under a weather protected roof with good air circulation.
• The remote sensor can be stood or mounted vertically on a wall. To do so please use the provided wall bracket, this should be mounted on the wall with a screw not with a nail.
• Ideally the sensor should be placed 1.25m (4 feet) over the ground respectively grass surface. Stone, asphalt, or tar surfaces can become extremely warm and thus falsify the measurement.
• Heat sources such as a fireplace or heaters of any type must be avoided.
• The display unit must be positioned within the transmitting radius of the sensor and away from the direct influence of heating or cooling apparatus. A distance of at least 1 meter must also be maintained between sensor and display unit and other remote equipment. Remote equipment is, for example, cordless telephones, wireless headphones, baby monitors, mobile phones etc.

6. BATTERY CHANGE

The batteries last for about 8-12 months. Depending on the batteries used this time frame may be a bit shorter or longer. A message icon will appear in window C to prevent an undesired and unexpected interruption of operation.
- OUT LOW BATTERY
This means that the batteries in the remote sensor need to be replaced (after this please start to scan for the remote sensor as described in chapter 4.2 !)
- IN LOW BATTERY
This means that the batteries in the display unit are becoming too weak and must be replaced.

The ticker is automatically activated if a battery status message is activated. It is not possible to stop the ticker as long as the message is displayed!

Important:
Use only new batteries and never combine old batteries with new batteries. Observe polarity when inserting batteries!
Please also remember that used batteries do not belong in domestic trash, they should be disposed of at designated collection points. Our environment will appreciate it!

Important note on batteries
• The device is delivered with batteries so that you can immediately put it into operation. These batteries may not last as long as store bought batteries. As soon as you have to replace the batteries in the remote sensor we recommend using alkaline batteries. Especially when outdoor temperatures drop to 0°C (32°F) or below these batteries will ensure a more reliable transmittal. If possible even use **lithium** batteries.
• Never use rechargeable batteries. The output of rechargeable batteries is often not sufficient for our devices.

7. CARE OF THE DEVICE

- Do not expose the device to extreme temperatures or direct sunlight over longer periods.
- Avoid blows and shocks of any kind to the device.
- For cleaning use a dry soft cloth that you have moistened with water and a very mild cleaning agent. Never use volatile substances such as benzene, thinner, cleansing agents in spray cans etc.
- When the device is not being used store it in a dry area and out of the reach of small children. In such cases it is important to remove the batteries!
- If the device is activated under extreme coldness it may occur that the display becomes illegible. As soon as it is returned to a warm environment the device will function normally again.
- Please keep the Instruction Manual and other documents delivered with the device stored carefully so that you can reference them at a later point if necessary.
- Important: All disposal fees in Switzerland (vRG) as well as in the EU (WEEE) for all Irox devices are covered.

8. SUPPORT

This device is a new development of Irox Development Technology. All information was made and checked by means of a functioning device. It may occur that adjustments and improvements of the device will take place that due to typographical procedures were not able to be listed in this manual. Should you notice deviations which make it difficult for you to operate and use of the device you may at any time download the latest manual onto your PC free of charge at www.irox.com.

9. FUNCTIONS AND TECHNICAL DATA

Display unit

Time
• Absolutely accurate time by receiving the time signal DCF77 from Frankfurt.
• Time format adjustable (12 or 24 hour format)
• Time settings manually or as deviation from DCF77 time

Weather/Climate
• Weather forecast for coming 12 to 24 hours via 7 icons.
• Room temperature and relative humidity.
• Outdoor temperature via wireless remote sensor.

Measuring data
Temperature
Measurement range: -5°C to +50°C
Resolution: 0.1°C
Relative Humidity
Measurement range: 20% to 99%, Measurement cycle: 10 seconds
Barometer
Measurement range: 750 to 1100m hPa at 25°C (i.e. .200m to +3500m)
Measurement cycle: 20 minutes
Power Supply
2 x CR2032 (3V)
Dimensions
178 x 120 x 9.5 mm plus table foot

Remote sensor
• Measuring and transmittal of outdoor temperature via 433mHz

Measuring data
Temperature
Measurement range with alkaline batteries: -10°C to + 60°C
Resolution: 0.1°C
Rel. Humidity
Measurement range: 30% to 80%, Measurement cycle: 10 seconds
Radio frequency: 433 MHz, Transmission distance: Max. 30 meter (100 feet)
Transmitting interval: approx. 45 seconds
Power Supply
2 x AAA 1.5V batteries
Dimensions
38 x 105 x 18 mm plus mount

© Irox Development Technology

www.irox.com

CE