




## velleman WC8708 Desktop DCF Clock User Manual

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velleman®

Velleman WC8708 Desktop DCF



## Introduction

To all residents of the European Union Important environmental information about this product This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules. If in doubt, contact your local waste disposal authorities. Thank you for choosing Velleman! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, don't install or use it and contact your dealer.

## Safety Instructions

Keep the device away from children and unauthorized users. There are no user-serviceable parts inside the device. Refer to an authorized dealer for service and/or spare parts.

## General Guidelines

Refer to the Velleman® Service and Quality Warranty on the last pages of this manual. Indoor use only. Keep this device away from rain, moisture, splashing and dripping liquids. Keep this device away from dust and extreme heat. Protect this device from shocks and abuse. Avoid brute force when operating the device.

- Familiarize yourself with the functions of the device before actually using it.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorized way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.

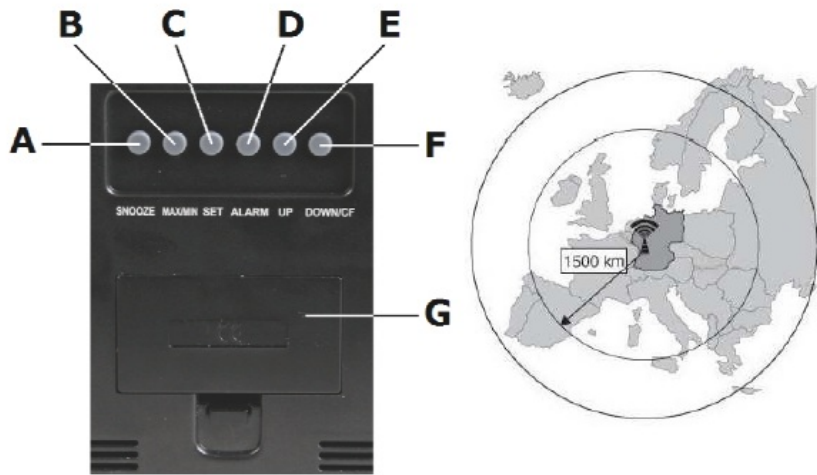
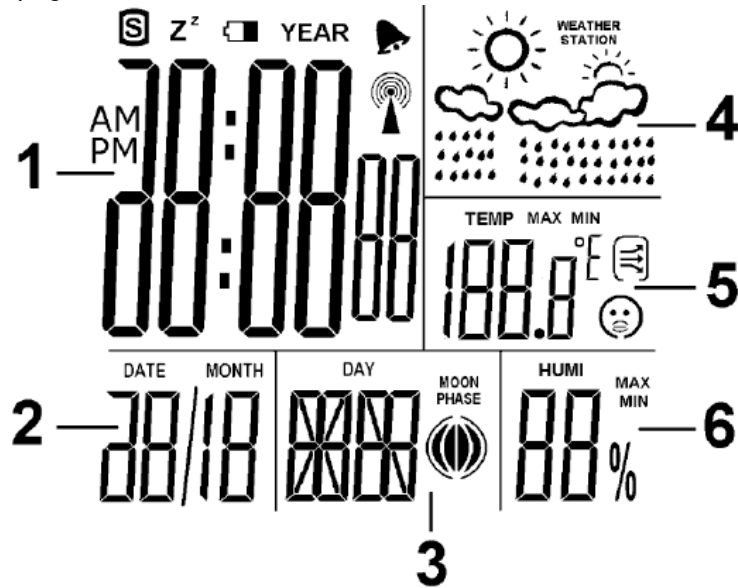
## Features

- DCF clock with 7 languages (English = German = French = Italian = Spanish = Dutch = Danish)
- 100 year indication (2000=2099)
- temperature indication (°C or °F)
- humidity indication

- weather forecast indication
- alarm with snooze=function
- moon phase indication (8 phases)

## Overview

Refer to the illustrations on page 2 of this manual.



display	
<b>1</b>	time and status indication daylight saving time (DST) active snooze function activated battery low alarm enabled DCF signal OK
<b>2</b>	date and month indication
<b>3</b>	day of the week and moon phase indication (8 phases)
<b>4</b>	weather forecast (4 indications)
<b>5</b>	temperature (°C or °F), trend and comfort indication trend indication comfort indication
<b>6</b>	humidity indication

<b>rear</b>		<b>D</b>	ALARM-button
<b>A</b>	SNOOZE-button	<b>E</b>	UP-button
<b>B</b>	MAX/MIN-button	<b>F</b>	DOWN/CF button
<b>C</b>	SET-button	<b>G</b>	battery compartment

## Working principle

The WC8708 contains a receiver which receives a radio=signal from a radio station located at Mainflingen near Frankfurt, Germany. This long=wave radio=signal (DCF77, 77.5 kHz) is based on atomic clocks and contains time and date information. For more information refer to [www.ptb.de](http://www.ptb.de) (PTB = Physikalisch-Technische Bundesanstalt). The WC8708 automatically synchronizes with this master clock radio=signal. Due to its nature, the radio=signal can be received indoors. However, it should be noted that the signal is weakened by the presence of concrete and metal. Therefore the clock must not be installed in concrete basements or inside metal cages. In large concrete office buildings or apartments, the clock should be located near a window for better reception. Also avoid installing the clock near strong magnetic fields or other devices that generate a lot of electrical noise (e.g. engines).

## Setting

Refer to the illustrations on page 2 of this manual.

- Insert batteries in the battery compartment [G] (see §10).

## Time setting

- Choose a location for the clock (refer to §5). The clock can be wall mounted or placed on a desktop using the

included stand.

- Wait until the clock receives the synchronization signal from the master clock. The clock will attempt to contact the master clock for 7 minutes. It will automatically synchronize once every day at a fixed time (2:00 in the morning). Note that the received signal is usually stronger at night time.
- During synchronization, the DCF=icon flashes. Once synchronized, the icon is fixed on the display.
- When the clock doesn't receive the radio=signal, it will not show the DCF= icon and starts running showing the wrong time. The clock can be set to the correct time manually (see below).
- To force wave detection, press and hold the CF= button [F] for  $\pm 5$ s. Note that frequent use of this feature will shorten battery life time.
- To stop wave detection, press the CF= button [F] for  $\pm 2$ s.
- Default the clock is in 24h format. Press the UP=button [E] to switch to 12h format (AM or PM indicated in front of the time). Press and hold the CF= button [F] for  $\pm 5$ s to re=synchronize the clock.

### **Setting the date / clock manually**

- The date and time can be set manually when the clock is used in a place without DCF reception (e.g. a basement) or in case synchronization is temporarily not possible. Note that because of atmospheric conditions at night time the DCF signal is stronger and travels further.
- Press and hold the SET=button [C] for  $\pm 5$ s. The display shows the year (flashing).
- To change the setting, use the UP=[E] or DOWN=[F] button. Press the SET=button [C] to confirm and move to the next adjustable parameter. Parameter sequence = year – month – date – day language\* = hour – minutes – time zone offset = exit \* language options are: EN (English), GE (German), DA (Danish), ES (Spanish), NE (Dutch), FR (French) or IT (Italian).
- If no key is pressed within 8s the clock returns to normal operation.

### **Alarm setting**

- Press and hold the ALARM=button [D] for  $\pm 5$ s. The display shows the alarm time; the hours are flashing.
- To change the setting, use the UP=[E] or DOWN=[F] button.
- Press the ALARM=button [D] to confirm and move to the minutes=setting.
- After setting the alarm minutes, press the ALARM=button [D] to confirm and exit to normal display.
- If no key is pressed within 8s the clock returns to normal operation.

## **Operation**

### **Alarm handling**

- To enable the alarm, press the ALARM=button [D] shortly. The alarm=icon appears. To disable it, press the ALARM=button [D] again.
- When the set time is reached, the alarm will sound. Format:
  - 0~10s: 1 beep per second
  - 11~20s: 2 beeps per second
  - 21~30s: 4 beeps per second

- 31~120s: continuous beep.
- To go into snooze mode, press the SNOOZE=button [A]. The alarm is postponed for  $\pm 5$  minutes and the snooze=icon appears.
- Pressing any other button will stop and exit the alarm. Weather forecast [4]
- The weather icon shows a forecast of the weather for the next 24h.
- There are 4 icons:



sun



sun/clouds



clouds



rain

- Place the weather station in a natural ventilated area (e.g. not in a room with air=conditioning) to get more accurate results.

#### Temperature display [5]

- The temperature range is 0~50°C (32~122°F).
- To switch between °C and °F display, press the CF button [F] shortly.
- The trend indicator is based on the difference between a recorded temperature and the current temperature. When the current temperature is at least 1°C higher than the recorded, the arrow will point up and the current temperature becomes the recorded. If the temperature is at least 1°C lower than the recorded value, the arrow will point down and the current temperature becomes the recorded. In all other cases, the arrow will be flat.

**Note:** the recorded temperature is set to the current temperature at start=up or reset of the weather station.

#### Humidity display [6]

- The humidity range is 20~95%. Comfort indication [5] • The comfort level is based on the current temperature and humidity and is indicated by following icons:

- dry



temp.: 0~50°C

humidity <40%

- wet



temp.: 0~50°C humidity >70%

- comfort



temp. 20~28°C

humidity: 40~70%

### **Moon phase [3]**

- One of the eight moon phase icons is shown depending on the position of the moon, the earth and the sun:  
new moon waxing crescent first quarter waxing gibbous full moon waning gibbous last quarter waning crescent

### **Maintenance**

- Gently wipe the device regularly with a moist, lint-free cloth. Do not use alcohol or solvents. Do not apply pressure on the display.
- Never submerge the weather station in any liquid.

### **Battery**

- When the battery low icon is shown, insert batteries into the battery compartment [G] at the back of the weather station.
- Open the battery cover [G] and insert two new 1.5V type AA batteries (not incl.) following the polarity markings inside the battery compartment.
- Close the battery cover [G].

### **WARNING:**

Do not puncture or throw batteries in fire as they might explode. Do not attempt to recharge non rechargeable batteries (Alkaline). Dispose of batteries in accordance with local regulations. Keep batteries away from children.


### **Technical specifications**

temperature range	0 ~ +50°C (32 ~ 122°F)
humidity range	20 ~ 95%
sampling period	15s
power supply	2 x 1.5V AA batteries LR6C (not incl.)
dimensions	175 x 175 x 28mm
weight	360g

use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage or injury resulted from (incorrect) use of this device. For more info concerning this product and the latest version of this user manual, please visit our website [www.velleman.eu](http://www.velleman.eu). The information in this manual is subject to change without prior notice.

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## Documents / Resources

	<p><a href="#">velleman WC8708 Desktop DCF Clock</a> [pdf] User Manual WC8708 Desktop DCF Clock, WC8708, Desktop DCF Clock</p>
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## References

-  [Physikalisch-Technische Bundesanstalt](#)
-  [Velleman â€œ Wholesaler and developer of electronics](#)