

When the signal icon on the clock flashes, this indicates that the clock is receiving the radio signals from the Germany (DCF) or UK (MSF) radio station (this depends on which version you purchase). When the time code is received the signal icon turns on. If the signal icon does not appear at all and the time is not yet set, please take note of the following should just be:

- We recommend keeping the minimum distance of 8 feet from any interfering source like TV's computer monitors.
- Within concrete rooms (basements, superstructures, tower block, office buildings, etc.), the received signal will be weakened. In extreme cases, the unit should be placed close to a window and/or point the clock face or back towards the Frankfurt, Germany (DCF77) / Cumbria, England (MSF).
- Avoid placing the unit on or next to metal surfaces.
- Do not start reception whilst moving such as in a vehicle or on a train.
- During the night, the atmospheric disturbances are usually less severe and reception is possible in most cases. A single daily reception is adequate to keep the accuracy within 1 second.



CARE OF YOUR CLOCK

Replace the battery promptly when necessary and store the clock without batteries when not in use. It is time to replace the batteries when the LCD display becomes dim. Clean your clock with a soft cloth or paper towel. Do not use corrosive cleaners or chemical solutions on the clock. Avoid putting the clock in a highly humid environment such as poolside or in a bathroom. Do not expose the clock to direct sunlight, extreme hot or cold temperatures. Do not use rechargeable batteries. Non-rechargeable batteries are not to be recharged. Different types of batteries or new and used batteries are not to be mixed. Only batteries of the same or equivalent type as recommended are to be used. Batteries are to be inserted with the correct polarity. Exhausted batteries are to be removed from the product. The supply terminals are not to be short-circuited. Do not dispose of batteries in fire; batteries may explode or leak.

Note: Attention! Please dispose of used unit and batteries in an ecological safe manner.
 Customer help line 0121 524 1400 (Monday - Friday 9:00am - 5:00pm.)
 For more information relating to Precision Radio Controlled products.
 Please visit our website www.precisiontimekeeping.com
 Email Address: customerservice@peershardy.co.uk
 PH Services, Precision House, Unit 4, Startey Way,
 Birmingham International Park, Bickenhill Lane, Solihull, B37 7GN



The National Physical Laboratory (NPL) is the UK's home of measurement and the nation's timekeeper. NPL is responsible for operating the national time system and making accurate time available across the UK. The clock you have just received keeps accurate time by picking up NPL's radio signal, called MSF, which is broadcast on 60 khz from a location in Cumbria. This transmission carries a date and time code that radio controlled clocks use to set themselves to the correct time. The signal is controlled by atomic clocks at the radio station, and is adjusted to keep it in step with the national time maintained at NPL's laboratory in south-west London. For more informations visit www.npl.co.uk/time Your clock is controlled by the MSF signal which is synchronised to the national time scale at NPL, making it 'forever accurate'.



**TIME FROM NPL
 forever accurate**



Note:



The WEEE symbol indicates that waste electrical and electronic equipment should not be treated as normal household waste. It should be segregated and recycle when it has reached the end of its life, which can be done free of charge at local Civic Amenity Sites. For your nearest facilities see www.recycle-more.co.uk.

PRECISION

AP004 - Instruction Manual

The Radio-Controlled Clock

With the Radio-Controlled Clock, you can have the most accurate time within the UK. It can receive the time signal transmitted by VT Communications of United Kingdom, which is regulated by atomic clock and in average deviates less than 1 second in 10 million years. VT Communications transmit the time signal (MSF 60kHz) continuously from Anthorn at latitude 54°55'N and longitude 3°15'W. The main caused of reception difficulties are local interference and screening due to nearby metalwork, for example in a steel-frame building.

For more information, please study the WEB page of VT at: <http://www.npl.co.uk/time/msf>.

Environmental Reception Effects

The Radio-Controlled Clock obtains the accurate time with wireless technology. As with all wireless devices, the receiving ability may be affected by, but not limited to, the following circumstances:

- * Long transmitting distance.
- * Nearby mountains and valleys.
- * Among tall buildings.
- * Near railway, high voltage cables, etc.
- * Near motorway, airport, etc.
- * Near construction site.
- * Inside concrete buildings.
- * Near electrical appliances.
- * Near computers and televisions.
- * Bad weather.
- * Inside moving vehicles.
- * Nearby metallic structures.



Location precautions

This clock receives a radio wave much like a TV or radio. Be sure to locate it near a window or some other locations where reception is good. Avoid the following locations, which can interfere with proper reception:



Inside or near concrete/steel buildings or structures, unless the clock is close/ may interfere, next to a window (with curtain open).



Next or close to power station.



In moving vehicles (cars, trains, airplanes etc.)

where radio transmission or electronics with reception of the radio-controlled clock.



Too close to household appliances (computer, TV, video/audios, fax machines, speakers).



Near construction sites, traffic lights, neon lights etc.



Close to or on top of metal



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RADIO CONTROLLED CLOCK WITH TEMPERATURE

User's Instructions

Thank you for your purchase of this quality clock. The utmost care has gone into the design and manufacture of your clock. Please read these instructions carefully and store them in a safe place for future reference.

FEATURES

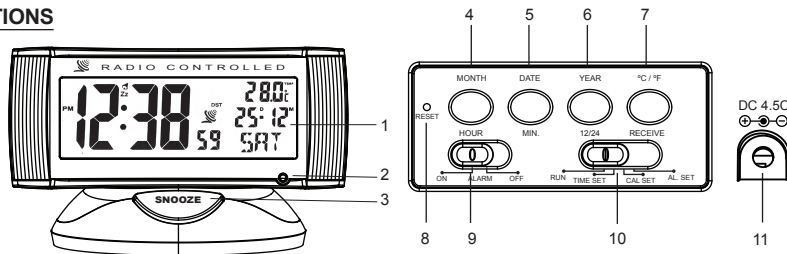
- Radio Controlled Accuracy - Sets Time Automatically
- English format day of week display
- Auto calendar display from Jan 1, 2000 to Dec 31, 2099
- Auto time and date receiving function (12/24 hour format)
- LCD display shows Hour, Minute, Second, Month, Date, Week, Alarm & temperature
- Repeat Snooze
- Daylight savings time function (DST)
- DC adaptor power backlight for viewing in darkness

FUNCTION KEYS

- SNOOZE:** 1. Stop alarm sound.
2. Press and hold it for 8 seconds to stop the current RC reception.
- SENSOR:** 1. Adjust the brightness of display according to the environmental brightness when using DC adaptor power the backlight.
- MONTH•HOUR:** 1. In normal time mode, press the button to display Alarm time and then return to temperature display in 5 seconds.
2. In setting mode, set the value of hour or month.
- DATE • MIN:** 1. In normal time mode, press the button to display Alarm time and then return to temperature display in 5 seconds.
2. In setting mode, set the value of minutes or day.
- YEAR • 12/24** 1. In normal time mode, toggle between 12 and 24 hour format.
2. In setting mode, set the year.
- °C/°F•RECEIVE:** 1.Toggle between °C and °F format.
2.Press and hold it for 3 seconds to seek RC signal instantly.
- RESET:** In case of mal-function after insertion of battery, use a pin to press the RESET key to restart the clock.
- ALARM ON/OFF:** Switch alarm & snooze function on or off.
- SWITCH:** Switch to the mode in the sequence: RUN, TIME SET, CAL SET and AL SET.

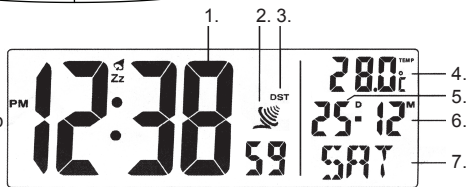
PRODUCT DESCRIPTIONS

1. LCD display
2. SENSOR
3. SNOOZE bar
4. MONTH • HOUR key
5. DATE • MIN key
6. YEAR • 12/24 key
7. °C / °F • RECEIVE key
8. RESET key
9. ALARM ON / OFF key
10. SWITCH key
11. DC JACK



DISPLAY SYMBOLS

- LCD display**
1. Clock display
 2. Signal strength indicator
 3. Daylight savings time indicator
 4. Temperature display/Alarm time disp
 5. Date
 6. Month
 7. Day of the week



INSTALLING OR REPLACING THE BATTERIES

- Begin by opening the battery compartment cover at the bottom of the clock.
- Insert 1 AAA battery into the battery compartment and make sure the polarity is correct by following the (+ or -) symbols engraved inside.
- Replace the battery whenever the display becomes dim or difficult to read.

Note: It is recommended that for the first use of the clock, you set the clock manually and then allow the Radio Control signal to update the time setting each day.

RADIO CONTROLLED TIME FEATURE

Once the battery is installed the clock will begin to seek out the radio signal to update the time. This typically takes between 3-6 minutes in good conditions. If after 12 minutes the signal has not been received, we recommend that you set the time manually. (See Setting the Time Manually.) After the first signal is received, the clock will automatically seek out the atomic clock signal in Frankfurt, Germany (DCF77kHz) / England (MSF 60kHz) four times a day at the following times: 2:00AM (3:00AM and 4:00AM will continue to seek the signal if the previous seeking was unsuccessful). 8:00AM, 2:00PM and 8:00PM, and continue to do so each day.

SETTING THE TIME MANUALLY

- Slide the [SWITCH] key to the [TIME SET] position, the time will begin to flash. Press the [MONTH • HOUR] key to set the clock to desired hour, press the [DATE • MIN] key to set the clock to the desired minutes.
- Slide the [SWITCH] key to the [RUN] position to exit the setting mode and the second will restart from 00. The clock will now begin keeping time. If "HOUR", "MINUTE" was not set, the seconds will keep the original time.

Note: In normal time mode, pressing the [YEAR•12/24] key will toggle between the 12 and 24 hour formats.

SETTING THE CALENDAR MANUALLY

- Slide the [SWITCH] key to the [CAL SET] position. The Year, Month and Date will begin to flash.
- Press the [MONTH•HOUR] key to set the desired Month. Press the [DATE•MIN] key to set the desired Date. Press the [YEAR•12/24] key to set the desired Year.

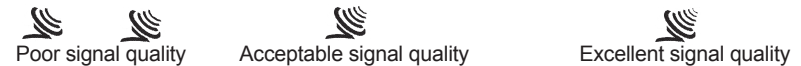
ABOUT THE DAYLIGHT SAVINGS TIME (DST)

This clock has been pre-programmed to automatically switch when daylight savings time is in effect. Your clock will show "DST" on the display during this time.

Please note: With the pre-programmed DST feature, if you live in an area where Daylight Savings Time is not observed, the time display on your clock will read +/- one hour during the DST time period.

SIGNAL STRENGTH INDICATOR FOR RADIO CONTROLLED TIME SETTING

The signal indicator displays signal strength in 3 levels. Wave segment flashing means time signals are being received. The signal quality is indicated:



If the RC clock receives signal successfully, a sync-time symbol "Zz" appears on LCD.

SETTING THE ALARM

- Slide the [SWITCH] key to the [AL SET] position. The alarm time (hour, minute) will begin flashing.
- Press the [MONTH • HOUR] key to set the desired alarm hour. Press the [DATE • MIN] key to set the desired alarm minute.
- Slide the [SWITCH] key to the [RUN] position to return to normal time mode, as well as temperature display.

Note: 12/24hour format of alarm time display are based on the normal time format.

USING THE ALARM AND SNOOZE FUNCTION

- To activate the alarm, slide the [ALARM ON/OFF] to the [ON] position, the bell indicator will appear on the display.
 - To deactivate alarm, slide the [ALARM ON/OFF] button to the [OFF] position, the bell indicator will disappear.
- Note:** The snooze will be on automatically after activating the alarm.

- To activate the snooze function just press the [SNOOZE] button. The alarm will stop sounding and then sound again in 5 minutes.
- When the Alarm function is activated, if you do not activate the snooze button the 3-step crescendo alarm will automatically snooze once every 5 minutes for a total of 4 times. The alarm duration is 60 seconds.

RADIO CONTROLLED FEATURE

Note: At any time, you can press and hold the [°C / °F•RECEIVE] key for three seconds to make the clock seek the atomic radio signal and set itself automatically. The signal strength indicator will blink on the display as the clock seeks out the signal.

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SIGNAL STRENGTH INDICATOR FOR RADIO CONTROLLED TIME SETTING

The signal indicator displays signal strength in 3 levels. Wave segment flashing means time signals are being received. The signal quality is indicated:



Poor signal quality




Acceptable signal quality



Excellent signal quality



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