



PRECISION

MSF Radio Controlled Clock

Automatic Time Keeping
Accurate to 1 second in 10 million years
Automatic resetting to summer /winter time

PREC0019

Congratulations on your purchase of this quality Radio Controlled product. Great care has been taken to design and manufacture your clock. Please read these instructions and keep them safely as you may wish to refer to them in the future.

Important Notice

If the clock keeps showing the wrong time then we advise changing the LR6 alkaline battery. This normally resolves the problem.

Are you having difficulty in setting the clock to the correct time?

Signal strength improves at night, it is recommended to leave the battery inserted, ideally near a window overnight

Possible interference or faults

Domestic electrical appliances without radio interference suppressors.
TV receivers and computers within 2 meters of the clock
Machinery with high frequency leakage
Outside the normal transmission radius (1200km)
Weather conditions can effect the signal transmission
Metal clad buildings.

There are times during the year when the signal is switched off for maintenance. Please check the following web site for technical information: www.npl.co.uk/time

If you have any problems with this product that cannot be corrected by considering the above then please telephone our Customer Services Helpline on 0121 524 1400 Monday – Friday 9.00am – 4.00pm

Guarantee

Your clock is guaranteed against any defective parts or construction for 2 years from the date of purchase. Your guarantee is only valid if you present your original receipt when returning the clock. The guarantee provides you with the rights which are in addition to the consumer statutory rights and therefore, do not limit the effect of these statutory rights. Please note that this guarantee does not cover breakages caused by accident or maltreatment. Batteries are not covered. A full complete after sales service is also available, after the guarantee expires, at a nominal charge

When returning your clock

When returning your clock, please enclose a cheque or postal order for £4.95, payable to PH Services, to cover postage and insurance for loss or damage in transit. We cannot be held liable for loss or damage without this remittance. All clocks should be returned to: PH Services, Tompion House, 25 Birmingham Road, West Bromwich, West Midlands, B70 6RF

If you would like more information concerning the comprehensive radio controlled product ranges offered by Precision then please look at www.precisionclocks.co.uk

NPL



National Physical Laboratory

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 information 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

CMOS: SPL081A-461A, LCD-470, BATTERY 1 x AAA
 Model: C-8185 ADD/AMD PD06052M SIZE:A5
 PANTONE: 445C

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

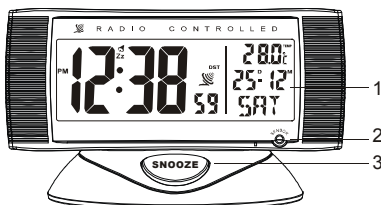
- Radio Controlled Accuracy - Sets Time Automatically
- English format day of week display
- Auto calendar display from Jan 1, 2000 to Dec 31, 2050
- Auto time and date receiving function (12/24hour format)
- LCD display shows Hour, Minute, Second, Month, Date, week, Alarm & temperature
- Repeat Snooze
- Daylight savings time function (DST)
- DC adaptor power backlight for viewing in darkness

FUNCTION KEYS

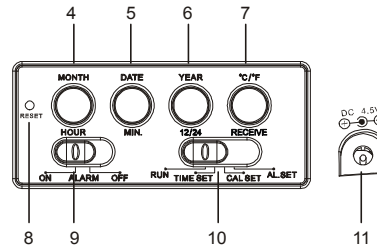
- SNOOZE:** Stop alarm sound. Press and hold it for 8 seconds to stop the current RC reception.
- SENSOR:** Adjust the brightness of display according to the environmental brightness when use DC adaptor to power the backlight.
- MONTH • HOUR:** In normal time mode, press the button to display Alarm time and then return to temperature display in 5 seconds. In setting mode, set the value of hour or month.
- DATE • MIN:** In normal time mode, press the button to display Alarm time and then return to temperature display in 5 second. In setting mode, set the value of minute or day.
- YEAR • 12/24:** In normal time mode, toggle between 12 and 24hour format. In setting mode, set the year.
- °C / °F • RECEIVE:** Toggle between °C and °F format. Press and hold it for 3 seconds to seek RC signal instantly.
- RESET:** In case of mal-function after insert 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 as 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 ON / OFF key
11. DC JACK



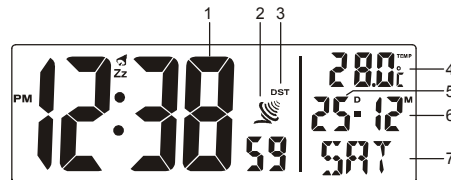
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DISPLAY SYMBOLS

LCD display

1. Clock display
2. Signal strength indicator
3. Daylight savings time indicator
4. Temperature display/Alarm time display
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 batteries (not included) 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.

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 12minutes 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) for four times one day at the following time: 2:00AM (3:00AM and 4:00AM will continue to seek the signal if the previous seeking was in failure), 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 wanted hour, press the [DATE•MIN] key to set the clock to the wanted minute.
- 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' wasn't set, the second 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.

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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.
- Slide the [SWITCH] key to the [RUN] position to return to normal timekeeping mode.

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 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 so that return to the 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 4 minutes.

When the Alarm function is activated, if you do not activate the snooze button the 4-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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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:

- We recommend keeping the minimum distance of 8 feet from any interfering source like TV's or 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) / England (MSF).
- Avoid placing the unit on or next to metal surface.
- Don't start reception in a moving article such as vehicle or 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.



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.

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.

Note:

Attention! Please dispose of used unit and batteries in an ecologically safe manner.



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