



MSF Radio Controlled Wall Clock

Please read these instructions and keep them in a safe place for future reference. Once you have inserted the battery the clock will automatically set up and adjust at the change of Summer/Winter time.

Radio controlled Technology

The radio controlled mechanism fitted to your clock has a built in receiver which is tuned to the National Physical Laboratory (NPL) radio signal, called MSF, which is transmitted from the Anthorn radio station in Cumbria. The MSF signal is broadcast on a frequency of 60khz and carries a time and date code that radio controlled clocks use to set themselves to the correct time. The time signal received is controlled by cesium atomic clocks and is accurate to within one second every 1000 years.

1

Automatic set-up

If the battery is already included then please remove the isolator tap from the battery compartment to start the clock.



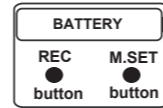
- * To replace the battery insert 1 x AA Alkaline battery in the polarity (+) and (-) as indicated.
- * After a few moments the hands on your clock will automatically move to the 4, 8, or 12 o' clock position. This indicates that the clock is in the receiving mode.
- * The clock will receive the MSF signal and automatically set to the correct time.

Note: Be patient this can take a while. It is recommended that you leave the clock overnight for searching the time signal since the night time allows better transmission of MSF signal reception.

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Manual Set (Not all models)

In Normal Status - If the clock does not receive the MSF Signal during initial set-up or at the change of Summer/Winter time you can manually set the time. To do this



- * Push and hold the M-SET button and after a few seconds the hands on the clock will start to turn.
- * Keep the button pressed until the correct time is displayed then release the button.
- * The clock will now work as a quartz clock until it receives the signal from the transmitter.
- * When the REC button is pressed the clock will begin the receiving mode again and the clock hands will start to turn.

3

Interruption to the MSF signal

The Anthorn transmitter is periodically shut down for scheduled maintenance resulting in no signal being transmitted. For dates of the schedule maintenance visit www.npl.co.uk/time/msfoutages.html or call the NPL MSF recorded message on (0)20 8943 6493

MSF reception difficulties

Like any receiver your clock needs a good signal to work properly. The main causes of reception failure are...

- * Atmospheric and local interferences
- * Interference from electrical equipment e.g. T.V, computers or radios within 2 meters of the clock.
- * Location of the clocks internal receiver within the building
- * Reduced local signal due to steel framed structure
- * Outside the normal transmission radius

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The following suggestion may help improve reception of the MSF signal:

- * Check that the battery is new and in good condition.
- * Check that the battery is inserted correctly.
- * Try rotating the clock as the internal receiver that picks up the signal is most effective when it is facing directly towards or away from Anthorn.
- * Try moving your clock to a new location away from any electrical equipment e.g. T.V, computers or radios.
- * Remove the battery and insert the battery again after 5.30pm. Due to local interference the signal is stronger between midnight and 5am.

Note: The clock uses most power searching for a signal. To conserve battery life the clock will search for the MSF signal once a day to conserve battery life after the signal is received.

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Changing the battery

- It is recommend that you replace the battery annually even if the clock is still running.
- Only use AA (1.5V) Alkaline batteries in this clock.
- Please dispose of used batteries in a responsible manner.

Manintenance

A soft cloth may be used to clean your clock. Do not use any corrosive cleaner or chemical solutions on the clock. Keep the clock clean and dry to avoid any problems.

Your Guarantee

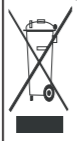
Your clock is guaranteed for 12 months from the date of purchase against any faults arising from defective materials or manufacture. Damage caused through careless handling, misuse or in transit is expressly excluded. Should this clock fail within 12 months please return it in the first instance to your retailer.

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If you have any queries, problems or do not understand any parts of these instructions please contact:

Customer Help Line (01908) 220020 or
Locall 0845 1207208 Mon - Fri 9.00am - 4.30pm
service@acctim.com or www.acctim.com

Environmental Protection

 **Disposal of electrical & electronic equipment**
Do not dispose of this product with household waste. For the proper treatment, recovery and recycling please take this product to the appropriate collection point. If you are unsure of where this is contact your local authority. Improper disposal may be harmful to the environment.



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