

MFJ Enterprises, Inc.

300 Industrial Park Rd
Starkville, MS 39759 USA

MFJ-130RC Jumbo Digit Atomic Clock with Day, Date, and Temperature Instruction Manual

The MFJ-130RC works by receiving the time radio signal generated by the US Atomic Clock located in Ft. Collins, Colorado. Any place that can receive the signal can use the MFJ-130RC. Any place that cannot receive the signal will have to set the time manually. The Atomic Clock in Colorado is operated by the US Department of Commerce's National Institute Standards and Technology (NIST). To enhance good reception of the signal, avoid placing your MFJ-130RC near television sets, metal surfaces, computers, or any other electrical device that may interfere with the reception of the radio signal.

FCC Statement

The MFJ-130RC might cause TV or radio interference when operating properly. To determine whether the MFJ-130RC is causing interference, take out the batteries to turn it off. If the interference goes away, the MFJ-130RC is causing the interference. Try to eliminate the interference by reorienting the MFJ-130RC and/or increasing the separation between your equipment and the MFJ-130RC. If you cannot eliminate the interference, the FCC requires that you stop using the clock.

Display and Mounting

The MFJ-130RC can be mounted on a wall or displayed on a desktop. For desktop display, insert the legs provided into the slots on the back of the clock and lock in place. For wall mounting, it is suggested that the MFJ-130RC be mounted at an angle 30 above eye level.




Battery Replacement

The MFJ-130RC uses two AA batteries (not included). Open the battery cover and insert the batteries according to the polarity shown inside the battery compartment. If the LCD Display becomes dim, replace the batteries with new ones.

Setup and Initialization

The MFJ-130RC will immediately begin searching for the time signal when batteries are installed. The factory setting for the time zone is Pacific Time with 0 offset.

Radio Signal Reception

After installing the batteries the  symbol will begin to flash indicating that the MFJ-130RC is searching for the time signal. If the time signal is received you will hear a beep and the  symbol will stop flashing. If the time signal cannot be received the  symbol will disappear. The MFJ-130RC will search for the time signal once each day and make the necessary adjustment between 2:00 AM and 5:00 AM.

- To initiate reception of the radio signal at any time, press and hold the “-” button for 3 seconds.

Setting the Time Zone

Press and hold the “-” button for 3 seconds. The “DAY” LCD display will begin to flash with the current setting. See the chart below for setting. Press the “-” to cycle through the time zones. When you have selected the desired time zone, press the “CLK/CAL” button to confirm the selection. The “DAY” LCD display will continue flash either “D-T” or “S-T”. If you are in a time zone that observes Daylight Savings Time select “D-T” otherwise select “S-T”. Press the “-” to cycle through the settings. When you have selected the desired setting, press the “CLK/CAL” button to confirm the selection.

Time Settings	LCD Display
Pacific	P-T
Mountain	M-T
Central	C-T
Eastern	E-T
Daylight Savings Time	D-T
Standard Time	S-T

Manually Setting the MFJ-130RC

IF the MFJ-130RC cannot receive the time signal, follow the steps below for setting the MFJ-130RC manually.

1. Press and hold the “CLK/CAL” button for 3 seconds. The upper LCD display will begin to flash.
2. Press the “+” or “-” buttons to change between “12hr” and “24hr” time display. When the desired setting is selected, press the “CLK/CAL” button to confirm and proceed to the next step.
3. The hour digits will begin to flash. Press “+” or “-” buttons to change the hour digits to the proper time. Press the “CLK/CAL” button again to confirm and proceed to the next step.
4. The minutes digits will begin to flash. Press the “+” or “-” buttons to change the minutes digits to the proper time. Press “CLK/CAL” button again to confirm and proceed to the next step.
Note: as soon as the “CLK/CAL” button is pressed the time will begin counting.
5. The Year will now begin to flash in the upper LCD. Press the “+” or “-” buttons to change the year. Press the “CLK/CAL” button again to confirm and proceed to the next step.
6. The Month digits will now begin to flash in the lower left LCD display. Press the “+” or “-” buttons to change the month. Press the “CLK/CAL” button again to confirm and proceed to the next step.
7. The Date digits will now begin to flash in the lower LCD display. Press the “+” or “-” buttons to change the date. Press the “CLK/CAL” button again to confirm and proceed to the next step.
Note: The Day of the week in the lower center LCD display is automatically set from the Year, Month, and Date settings. If the Day of the week is not correct check the Year, Month, and Date settings again.
8. “0” will now begin to flash in the upper LCD display. This is the offset from your time zone. Adjust the offset with the “+” or “-” buttons. You can select an offset from +12 hours to 12 hours, so you can accurately display the time anywhere in the world. Press the “CLK/CAL” button to confirm the offset and return to normal display mode.



Note: To display UTC time, set the time zone to your correct time zone, disable the Daylight Savings Time feature, and change the offset in step #8 according to the chart below:

Time Zone	Offset
P-T	5
M-T	6
C-T	7
E-T	8

Setting the Alarm Time

1. Press and hold the “ALARM SET” button for 3 seconds. The upper LCD will display the alarm time and the hours digits will begin to flash.
2. Press the “+” or “-” buttons to change the hour. When the desired hour is reached, press the “ALARM SET” button to confirm and proceed to the next step.
3. The minutes digits will now begin to flash. Press the “+” or “-” buttons to change the hour. When the desired hour is reached, press the “ALARM SET” button to confirm and return to normal time display.

Setting the Alarm

1. To display the Alarm Time press the “ALARM SET” button. This will display the time that the alarm will sound. The display will return to normal time display mode after 5 seconds.
2. To turn the alarm on press the “ALARM ON/OFF” button. In the upper left corner of the LCD display, the  symbol will indicate that the alarm is now on.
3. When the current time reaches the alarm time, the alarm will sound. Pressing any button will turn the alarm sound off.
4. To disable the Alarm feature press the “ALARM ON/OFF” button until the  symbol disappears from the upper left corner of the LCD display.

Temperature

The MFJ-130RC has an internal temperature sensor that updates the every three (3) seconds. The temperature is displayed in °F in the lower right LCD display. The temperature range is 32°F to 122°F.

12 MONTH LIMITED WARRANTY

MFJ Enterprises, Inc. warrants to the original owner of this product, if manufactured by MFJ Enterprises, Inc. and purchased from an authorized dealer or directly from MFJ Enterprises, Inc. to be free from defects in material and workmanship for a period of 12 months from date of purchase provide the following terms of this warranty are satisfied.

1. The purchaser must retain the dated proof-of-purchase (bill of sale, canceled check, credit card or money order receipt, etc.) describing the product to establish the validity of the warranty claim and submit the original or machine reproduction of such proof-of-purchase to MFJ Enterprises, Inc. at the time of warranty service. MFJ Enterprises, Inc. shall have the discretion to deny warranty without dated proof-of-purchase. Any evidence of alteration, erasure, or forgery shall be cause to void any and all warranty terms immediately.
2. MFJ Enterprises, Inc. agrees to repair or replace at MFJ's option without charge to the original owner any defective product under warranty, provided the product is returned postage prepaid to MFJ Enterprises, Inc. with a personal check, cashiers check, or money order for \$7.00 covering postage and handling.
3. MFJ Enterprises, Inc. will supply replacement parts free of charge for any MFJ product under warranty upon request. A dated proof-of-purchase and a \$5.00 personal check, cashiers check, or money order must be provided to cover postage and handling.
4. This warranty is **NOT** void for owners who attempt to repair defective units. Technical consultation is available by calling (662) 323-5869.
5. This warranty does not apply to kits sold by or manufactured by MFJ Enterprises, Inc.
6. Wire and tested PC board products are covered by this warranty provided **only the wired and tested PC board product is returned**. Wired and tested PC boards installed in the owner's cabinet or connected to switches, jacks, or cables, etc. sent to MFJ Enterprises, Inc. will be returned at the owner's expense unrepaid.
7. Under no circumstances is MFJ Enterprises, Inc. liable for consequential damages to person or property by the use of any MFJ products.
8. **Out-of-warranty Service:** MFJ Enterprises, Inc. will repair any out-of-warranty product provided the unit is shipped prepaid. All repaired units will be shipped COD to the owner. Repair charges will be added to the COD fee unless other arrangements are made.
9. This warranty is given in lieu of any other warranty expressed or implied.
10. MFJ Enterprises, Inc. reserves the right to make changes or improvements in design or manufacture without incurring any obligation to install such changes upon any of the products previously manufactured.
11. All MFJ products to be serviced in-warranty or out-of-warranty should be addressed to MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, Mississippi 39759, USA and must be accompanied by a letter describing the problem in detail along with a copy of your dated proof-of-purchase.
12. This warranty gives you specific rights, and you may also have other rights which vary from state to state.