

# TempMinder® MRI-823MXC Wireless Weather Station

Congratulations on having purchased (or received) this fine MRI-823MXC TempMinder®. If you have any questions or concerns, feel free to contact us at any time (information below). These instructions are purposely non-technical (written by Minder's "non-engineering" staff members only).

## Specifications:

- Remote Temperature Range: -40°C to + 60°C (-40°F to +140°F)
- Remote transmission Distance: Max 100 meters (327 ft.)
- Temperature Accuracy: +/- 1°C /2.0°F (If above freezing)
- Humidity Range: 20% to 99%
- Humidity Accuracy: +/- 5% (at 25C/77F between 30% & 80%)
- Barometric Pressure Display: inHg or hPa
- Power Supply: 5 "AAA" batteries (not incl.)  
Or 4.5v AC/DC adaptor (incl.) +2 "AAA" batteries (not incl.)
- RCC Auto Set Clock w/5.5 zones (PST/MST/CST/EST/AST/NST)

## Functions:

- 12 to 24hr weather forecast based on barometric pressure changes
- Temperatures in C or F with trend arrows
- Remote temp and humidity from up to 3 locations (2 are optional)
- One RS-MX remote transmitter included
- Indoor Temperature & Humidity
- 12/24 hr auto setting (atomic) clock w/alarm/snooze
- RCC Clock has 5.5 time zones (see Auto Setting clock for details)
- Auto Daylight Savings on/off selectable
- Low Battery icons for remotes and receiver
- 4.5V AC/DC adaptor included
- 4 Moon Phases

## ➤ **KNOW YOUR TempMinder® MRI-823MXC CONTROLS!!!**

### Receiver Rear

- "SET" used to manually set time zone, DST, 12/24hr, time, date and pressure units.
- "ALM" used to set time alarm.
- "UP&C/F" used to increase units in manual mode or select C or F
- "DOWN&CH" used to decrease units in manual mode or change remote channels

### Receiver Top

"SNZ/LIGHT" used for 10 minute snooze or dim backlight (with A/C power).

## Quick Note for "Button Pushers":

If you have not read the following instructions, plugged in the receiver and started pushing buttons, you may find that none of them are working.

That is because the unit is searching for a time and date signal from Colorado (  icon is flashing)!

This will go on for two minutes. While it does, you may as well go to the end of these instructions and read the part "Nothing Works  ??!!" in the Miscellaneous Information/Hints section.

## ➤ **Operating Directions (Powering up):**

- Remove the static overlay on the receiver (if you don't, the numbers will never change – ha!!!)
- Remove the battery compartment door from the RS-MX remote transmitter. Press “in” and push “down” on the remote rear cover. It should slide off easily. If you have additional remote transmitters, open these as well. **DO NOT INSTALL THE BATTERIES YET!**
- Plug in the 4.5v AC/DC adaptor in the rear of the receiver. It will now search for remote signals for 3 minutes. If you have not plugged it into a wall outlet, you may do so now.
- Insert 2 “AAA” alkaline batteries in the first RS-MX remote transmitter. The temperature will appear on the upper half of the screen and humidity on the lower half. “CH 1” will appear just to the left of the humidity number. If/when you add a second and/or third remote, press the “CH” button inside the battery compartment to choose either channels 2 or 3. You will probably need a magnifying glass if you really need to see “CH2” or “CH3”. Suffice it to say, “CH1” is at the top left corner of the Humidity number, “CH2” is in the middle and “CH3” is in the lower left.
- Remember, you have three minutes to set up all the transmitters. Note: press and release the UP/C-F button to change the units of measure. This will not work if the unit is searching for the Time signal from Colorado.
- So, you now have two temperature and humidity readings showing on the receiver (in and out). If you have installed more than one transmitter, press and release the Down/CH button to scroll through the other channels. Please understand that at this point even though the receiver and the remote are close together, the temperatures will not match exactly. Due to electronic tolerances, it could take up to 48 hours for them to come within 1°C (2°F). Don't bother waiting (there is no point). You may relocate the RS-MX at any time. For location hints, see “Locating the Remote” at the end of these instructions.
- If you are **adding a second or third** RS-MX transmitter at a **LATER DATE**, install the batteries and set the channel (on the remote) to either channel 2 or 3. On the receiver, press and hold the “Channel” button for 2 seconds. A small scrolling icon will flash to the right of the word “OUTDOOR”. All remote information will be cleared and the TempMinder® will search for new information. You should see this new remote information within 3 minutes. Press the channel button (on the receiver) to scroll through all active transmitters.

# TempMinder® exclusive 5.5 time zones

## Setting the Date & Time Method A

### Auto Setting (RCC Atomic) Clock

The MRI-823MXC has an auto setting clock capable of adjusting to 5.5 North American time zones.

“PST” Pacific Standard Time (GMT-8)

“MST” Mountain Standard Time (GMT-7)

“CST” Central Standard Time (GMT-6)

“EST” Eastern Standard Time (GMT-5)

“AST” Atlantic Standard Time (GMT-4)

“NST” Newfoundland Standard Time (GMT-3.5 half hour!!!!).

If you do not need to have the correct time and date set immediately, we suggest you simply go on with your life. It is likely that by tomorrow morning, the unit will have the time and date displayed. If for some reason the unit has not received the information, you may simply wait for another overnight cycle (strongest transmissions run from 1:00AM through 6:00AM), or you can go to the next section and enter your current time and date manually.

This TempMinder® is equipped to receive a radio wave signal (RCC) from the WWVB radio station located in Boulder Colorado USA. This signal covers most of North America. Unfortunately there are some distant areas which it does not reach. These include Alaska, Yukon, Northwest Territories and Hawaii. In the past, areas such as Maine, Labrador, Newfoundland as well as parts of Quebec, New Brunswick, Nova Scotia and PEI were also out of range. Recently we at Minder Research have been notified of atomic signals being received as far away (from Colorado) as Nova Scotia Canada.

It would appear that either the signal emanating from Boulder has strengthened or some other factor (like global warming???) has improved its reach. With this knowledge and in anticipation of the signal spreading even farther, Minder Research has developed software allowing for 5.5 time zones. These then would cover the correct times from Alaska (ex. 12:00 PM noon) to Newfoundland (5:30 PM).

So, if you live in one of those extreme locations and the auto setting clock does not yet function in your area, please go to the next section and simply set the date and time manually.

The default time zone is “EST”. If you live in a different time zone, press and hold the “SET” button for two seconds. The “EST” will flash. Simply press and release the up or down button until your zone appears. After 10 seconds, the new zone will be confirmed.

For more information and complete technical details on the Atomic Clock, as well as coverage maps go to the NIST (National Institute of Standards and Technology) website: [www.boulder.nist.gov/timefreq/stations/wwwvb.htm](http://www.boulder.nist.gov/timefreq/stations/wwwvb.htm) .

## ➤ **Setting Time and Date Manually Method B:**

**Note #1:** If you proceed to the following programming directions and none of the buttons seem to work, it is because

the unit is currently searching for the Colorado time signal (  flashing). To shut this off (temporarily), press and hold the UP button for two seconds. The flashing “search” icon will disappear and you will have complete control of all buttons.

**Note #2:** In order to set the time and date, you will need to go into the PROGRAM SETTING MODE by pressing and holding the SET button for two seconds. You will then have 8 seconds to input each piece of information (hour or minute or month, etc.). If you take (need) longer, the unit will return to the normal STANDBY MODE. **You will then simply need to go back into the PROGRAM SETTING MODE** (press and hold “SET” button for 2 seconds again). Previously entered information will still be there and can be skipped over by pressing and releasing the SET button. Sounds complicated, but you will understand once you get started. Whatever happens, do not get frustrated – patience is the key!

- **Press and hold “SET” button for 2 seconds.**
- Press UP OR DOWN button for your time zone then press SET to confirm.
- With the DST\* showing, decide ON or OFF using the up or down button then SET to confirm.
- Repeat the above to set: **12/24 hr. – hour – minute – year – month – day – hPa or inHg**
- \*DST = Daylight Saving Time (leave “ON” if your times change with the seasons).
  
- **Congratulations** – that’s it!! If you did it in one pass, you must be the engineer who wrote the software. If you did it in two tries, you are probably under 10 years old! Whatever the case, it’s done. Keep these instructions as you will need them in about a year when the batteries require replacement. Alternatively you may always go to our web site for lots of information.

## ➤ **Alarm Clock Setting:**

- Press & hold Alarm “ALM” button for 2 seconds
- Press UP or DOWN for desired hour then press ALM to confirm
- Repeat for minutes setting then press ALM to confirm
- Press ALM to activate (bell icon appears left of time) press again to de-activate.
- To check the preset alarm time, simply press and release the ALM button.
- When the alarm sounds, press the SNZ/LIGHT button for another 10 minutes of sleep OR press any other button to turn it off.

## **Weather Forecast:**

This function mainly considers the change in atmospheric pressure and is fairly accurate within a 10 mile (16 km) radius. This accuracy will be greatly reduced if the TempMinder® is constantly located in an enclosed environment (air conditioned or heated well sealed home). This can be modified somewhat by temporarily placing the receiver near an open window, in the garage or even outside on a protected porch or balcony. Understand that this forecast is not meant to replace the Weather Channel or your local weather man!!!

## ➤ **Miscellaneous Information/Hints:**

### **Nothing Works** 📶 !!!?

When your TempMinder® is searching for the Colorado time signal ( 📶 is flashing), no other controls will function. To rectify this, you may simply wait for 2 minutes (after which time the unit stops searching for one hour) or press and hold the “UP” button for 2 seconds. Either way, you will then have full control of all the buttons.

ALSO, when the 📶 is flashing, the entire screen will go black after 10 seconds. This allows the unit to transfer all available power to the search for the Colorado signal. The screen information will return when a signal is received or after two minutes of searching (whichever comes first).

If a signal has been received, the 📶 icon will be solid to the right of the time. If a signal has not been found after the two minute search, the unit will automatically search every hour (on the hour). The receiver will again go dark for these two minutes.

So, please do not return the unit to the store because the buttons are not working! If the above does not make sense, call us (Minder Research 772-463-6522). We have secret ways of fixing stuff over the phone!!!

- **Locate the Transmitter** out of direct sunlight. Even though the unit is “weather proof” try to keep it out of direct rain or snow as much as possible. Under an eave, window sill or overhang is ideal.

If temperatures in your area drop below -20°C/-4°F use Lithium batteries in the transmitter.

- **Remote Signal Loss:**

Press and hold the CHANNEL button for 2 seconds. This will initiate a 3 minute search. If still not found, read below.

If your TempMinder has been functioning for 6 months or longer, you will likely resolve the problem by replacing the batteries in both the transmitter(s) and the receiver.

If the problem persists, the cause is probably electronic interference from another device. This is very difficult to determine and all we can suggest is moving the receiver and transmitter to various locations. Quite often a move of even a few feet (meters) in one direction or another will resolve the issue. It is interesting to note that RF (Radio Frequency signals) will transmit better through a concrete wall than glass!

- **Need Extra Transmitters:**

If your retailer does not have **extra RS-MX** transmitters contact Minder Research below (e-mail, web-site, phone, etc.).

- **Warranty:**

This product is guaranteed against manufacturing defects (not including batteries) for a period of one year. Should it fail, return it to the address below (with a copy of your receipt). If you drop it, or your dog chews it up, please just buy a new one!!! ENJOY

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