



Quick Start for the HOBO® MX CO₂ Logger (MX1102A)

IMPORTANT: The CO₂ sensor within this logger can experience measurement drift during storage and shipment. Start the logger as described below and perform a manual calibration as described in Step 4. Note that improper manual calibration can cause incorrect sensor readings.

- 1** Install the batteries in the logger. Use a Phillips-head screwdriver to open the battery cover on the back of the logger and insert four AA batteries observing polarity. Screw the cover back in place.

- 2**
 - Download HOBObconnect® to a phone or tablet from the App Store® or Google Play™ or download HOBObconnect to a Windows® computer from www.onsetcomp.com/products/software/hobobconnect.
 - Download HOBOWare® to a computer from www.onsetcomp.com/products/software/hoboware.

- 3** To configure the logger with HOBObconnect:
 - a. Open the app. Enable Bluetooth® in your device settings if prompted.
 - b. Tap Devices in the app. Tap the logger in the app to connect to it. If the logger does not appear, make sure it is within range of your phone, tablet, or computer.
 - c. Tap  to set up the logger.
 - d. Choose your logger settings. Tap the CO₂ sensor and select both manual and auto calibration. Manual calibration immediately after logging begins is recommended for best accuracy. Enter the altitude if the logger will be deployed above or below 305 meters (1,000 feet).
 - e. Tap  to save the settings to the logger.




The logger will begin logging data based on the settings you selected in the app. Press the start button on the logger if you set it up to start logging with a button push.

To configure the logger with HOBOWare:

- a. Connect the logger to the computer with a USB cable.
 - b. From the Device menu in HOBOWare, select Launch.
 - c. Choose your logger settings. Click the CO₂ Settings button and select manual and auto calibration (both are selected by default). Manual calibration immediately after logging begins is recommended for best accuracy. Enter the altitude if the logger will be deployed above or below 305 meters (1,000 feet). Click Save.
 - d. Click the Start button when finished. Note that the Start button text changes based on your Start Logging selection.
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- 4** It is recommended that manual calibration be performed immediately after logging begins to ensure the best CO₂ accuracy. **Important:** If you do not follow these instructions as described, the sensor readings will be incorrect and you will need to manually calibrate the logger again.
 - a. Take the logger outside in fresh air. Weather conditions should be dry or the calibration value may be incorrect.
 - b. Press and hold the Calibrate button on the logger for 5 seconds until it beeps. The logger will then calibrate for 5 minutes; leave it outside during the process.
 - c. The CO₂ and Calibrate symbols on the LCD will flash while manual calibration is underway. Return the logger inside once the calibration is complete.

Note: If the logger was configured with both manual and auto calibration selected, auto calibration will occur every eight days after a manual calibration has occurred. Auto calibration requires that the building where the logger is deployed to be empty at least once during the eight-day period. Alternatively, you can perform a manual calibration as described above at any time. See the product manual for more details on calibration.

- 5** Deploy the logger using the included mounting materials.

- 6** To offload data from the logger to your device with the app, connect to it and tap . To view or export the data, tap HOBO Files, tap  (if applicable), and tap .

To offload data from the logger with HOBOWare, select Readout from the Device menu. Save the data when prompted and plot as desired.



For detailed specifications and information about this logger, refer to the complete product manual. Go to www.onsetcomp.com/manuals/22504-mx1102a-manual or scan the code at left.