

RS-232 Mobile Module – Configuring with MobileCollect Xpress Setup

APPLICABLE DEVICES RS-232 MOBILE MODULE (MC-MM-V2)

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1. RS-232 Mobile Module

The MobileCollect RS-232 V2 Mobile Module is a purpose-built wireless transmitter that enables true wireless RS-232 communication with native serial devices—without replacing proven equipment. Many RS-232 instruments output data through a DB9 connector, and RS-232 signal levels can range up to approximately ± 15 V; the RS-232 Mobile Module is designed with onboard circuitry to safely handle these higher voltage levels. In addition to DB9, MicroRidge offers multiple cable and connector options to support other common RS-232 connection styles used by gages and industrial devices.

Designed for flexible RS-232 data collection, the RS-232 Mobile Module can be configured to work with a wide range of serial-output gages, scales, DROs, and other devices. Using the MobileCollect setup programs, you can set the required serial COM parameters (baud rate, data bits, parity, stop bits), assign serial commands to the read switch, and apply basic data parsing so only the measurement you need is transmitted—helping streamline automation, improve traceability, and reduce manual data entry.

2. Setup Mode

Putting the RS-232 Mobile Module in setup mode is required to access the configuration menus. To place an RS-232 Module in setup mode and initiate a pairing/action request, follow the sequence of button presses below.

Setup Mode

1. Hold gray Setup button
2. Press orange Read button once
3. Release gray Setup button

Red and Green LEDs will Blink 5x then flash rapidly =
Setup Mode (~60 sec)

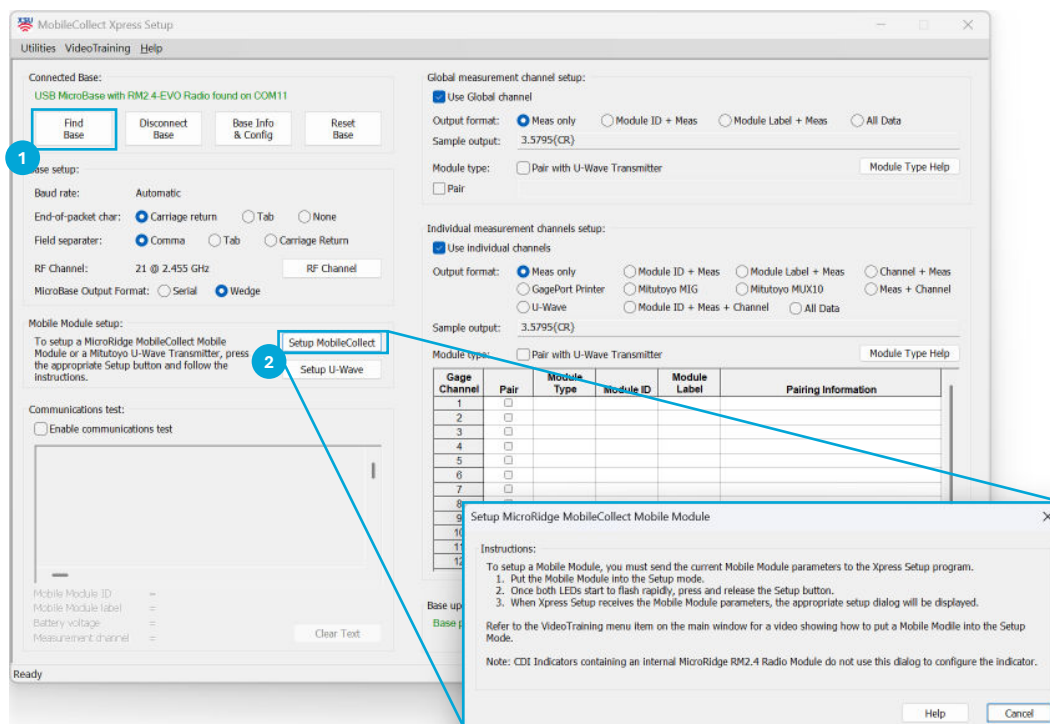
Pairing/Action Request

4. Press gray Setup Button once during Setup Mode
(Double Green LED 1 sec)



3. Configuring the RS-232 Mobile Module in Xpress Setup

1. Open MobileCollect Xpress Setup and Find the Base.
2. Click “Setup MobileCollect” to open the MobileCollect Setup prompt. Follow the steps in “Setup Mode” above to connect the RS-232 Mobile Module to the Setup Program.



3. When done successfully, the “RS-232 Mobile Module Setup Window will appear. Basic information about the RS-232 Mobile Module is shown in the upper portion of the window. The lower portion is where all the configuration items are shown.
4. **Module Label** - A user configurable label (8 characters) that can be sent with measurement data. The default Module Label is the Module ID.
5. **RS-232 Comm Parameters** – Select the appropriate Baud rate and parameters to match the gage/device.
6. **Command** – Serial command to send to the serial device to request data. Refer to the device manual for this command.
7. **Read Mode** – Program single/continuous read modes and TIR/Absolute Value modes. Refer to the *Changing Read Mode* feature guide for more info. (<https://www.microridge.com/mobile-module-changing-read-mode/>)
8. **Parsing** - The measurement packet received by the Mobile Module can be parsed to locate the first numeric field. If a numeric field is found, only the numeric field is sent to the Base. A numeric field must be at least 3 characters in length. The first character can be a blank. A decimal point is required in the field if this option is checked. The combination of the two is useful to look only for the precision number that usually represents the measurement from the gage and disregard numbers representing counts or the time and date.
9. When changes are completed, ensure the RS-232 Mobile Module is in **Setup Mode** and press the “Update Module” Button to send parameters to the RS-232 Mobile Module.

The screenshot shows the 'RS-232 Mobile Module Setup' window. It is divided into two main sections: 'Module Information' and 'Module setup:'. The 'Module Information' section displays read-only data: Module ID (CA0650), Module label (CA0650), Read mode (Single), Battery voltage (radio on) (3.00 volts), Battery voltage (radio off) (3.08 volts), Firmware version (5.35), Firmware date (6-23-23 12:13:02), Gage type (User Defined), RF Channel (21), Target Base ID (183804), and Connected Base ID (183804). A green status message at the bottom of this section reads 'Module is paired with connected Base'. The 'Module setup:' section contains several input fields and dropdown menus: 'Module label' (SCALE), 'Baud rate' (9600), 'Communication parameters' (N-8-1), 'End of packet character' (CR), 'Command' (P{CR}), 'Read mode' (Single Read with Button Press), and two checkboxes for parsing: 'Find first numeric field' and 'Decimal point required in numeric field'. At the bottom right, there are three buttons: 'Help', 'Update Module', and 'Close'. Numbered callouts 3 through 9 are placed over the window to correspond with the numbered list items: 3 points to the window title bar, 4 to the Module label field, 5 to the Baud rate dropdown, 6 to the Command field, 7 to the Read mode dropdown, 8 to the parsing checkboxes, and 9 to the Update Module button.

10. If the RS-232 Mobile Module is not paired to the base, use either global or individual channel pairing. Refer to the *Mobile Module – Pairing with Xpress Setup* feature guide for more info.
(<https://www.microridge.com/mobile-module-transmitter-pairing-with-xpress-setup/>)

MobileCollect Xpress Setup

Utilities VideoTraining Help

Connected Base:
USB MicroBase with RM2 4-EVO Radio found on COM11

Find Base Disconnect Base Base Info & Config Reset Base

Base setup:

Baud rate: Automatic

End-of-packet char: ☒ Carriage return ☐ Tab ☐ None

Field separator: ☒ Comma ☐ Tab ☐ Carriage Return

RF Channel: 21 @ 2.455 GHz RF Channel

MicroBase Output Format: ☐ Serial ☒ Wedge

Mobile Module setup:

To setup a MicroRidge MobileCollect Mobile Module or a Mitutoyo U-Wave Transmitter, press the appropriate Setup button and follow the instructions.

Setup MobileCollect Setup U-Wave

Communications test:

☐ Enable communications test

Mobile Module ID: --
Mobile Module label: --
Battery voltage: --
Measurement channel: --

Clear Text

Global measurement channel setup:

☒ Use Global channel

Output format: ☒ Meas only ☐ Module ID + Meas ☐ Module Label + Meas ☐ All Data

Sample output: 3.5795{CR}

Module type: ☐ Pair with U-Wave Transmitter Module Type Help

☐ Pair

Individual measurement channels setup:

☒ Use individual channels

Output format: ☒ Meas only ☐ Module ID + Meas ☐ Module Label + Meas ☐ Channel + Meas
☐ GagePort Printer ☐ Mitutoyo MIG ☐ Mitutoyo MUX10 ☐ Meas + Channel
☐ U-Wave ☐ Module ID + Meas + Channel ☐ All Data

Sample output: 3.5795{CR}

Module type: ☐ Pair with U-Wave Transmitter Module Type Help

Gage Channel	Pair	Module Type	Module ID	Module Label	Pairing information
1	☐				
2	☐				
3	☐				
4	☐				
5	☐				
6	☐				
7	☐				
8	☐				
9	☐				
10	☐				
11	☐				
12	☐				

Base update status:
Base parameters are current.

Update Base

Ready CAP NUM