

RS-232 Remote – Pairing and Initial Setup

APPLICABLE DEVICES

RS-232 REMOTE TRANSMITTER (MC-REM-RS232)

Contents

1. The RS-232 Remote	1
2. RS-232 Remote Pairing and Initial Setup – Base Reference	2
3. RS-232 Remote Pairing and Initial Setup – Remote Setup	2
4. RS-232 Remote Pairing and Initial Setup – Base Setup.....	4

1. The RS-232 Remote

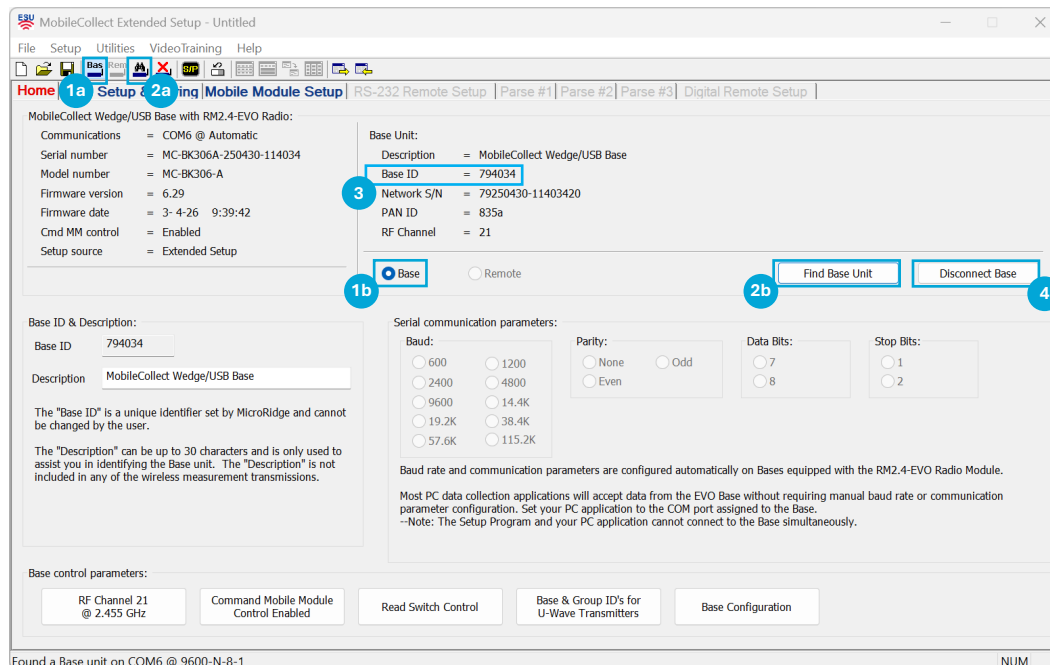
The [RS-232 Remote Transmitter](#) is a highly configurable transmitter that enables true wireless interfacing with native RS-232 devices. RS-232 devices typically output data via a DB9. RS-232 signals can commonly span $\pm 15\text{v}$. The RS-232 Transmitter has an architecture that allows it to communicate in this native voltage range and transmit the data on the MobileCollect.

The RS-232 Remote can be set up to interface with a wide range of RS-232 gages and devices. By utilizing the Mobile Collect Setup Programs, one can define comm parameters, program serial commands to the read switch port, and perform basic data parsing.

All RS-232 Remote setup needs to be completed with [MobileCollect Extended Setup](#).

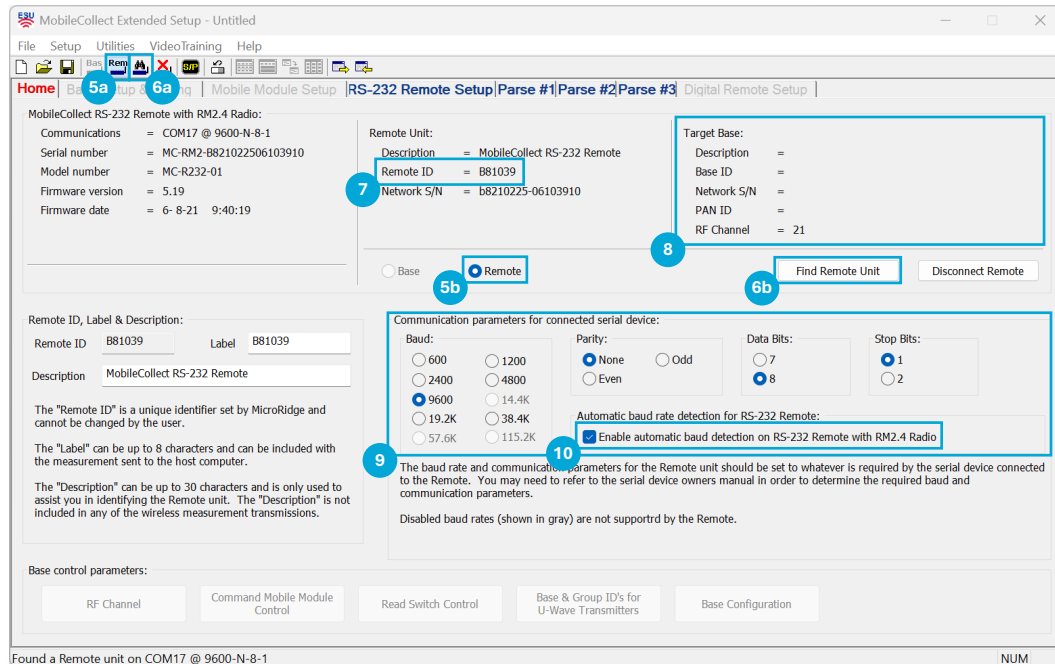
2. RS-232 Remote Pairing and Initial Setup – Base Reference

1. Open MobileCollect Extended Setup software and ensure that it is “Base” mode. Connect the Base to the PC via USB.
2. Find the desired Base Receiver.
3. Note the Base ID in the Info Window. This will be used in later steps to pair the Remote to the Base.
4. After noting the Base ID, disconnect the Base from the program.



3. RS-232 Remote Pairing and Initial Setup – Remote Setup

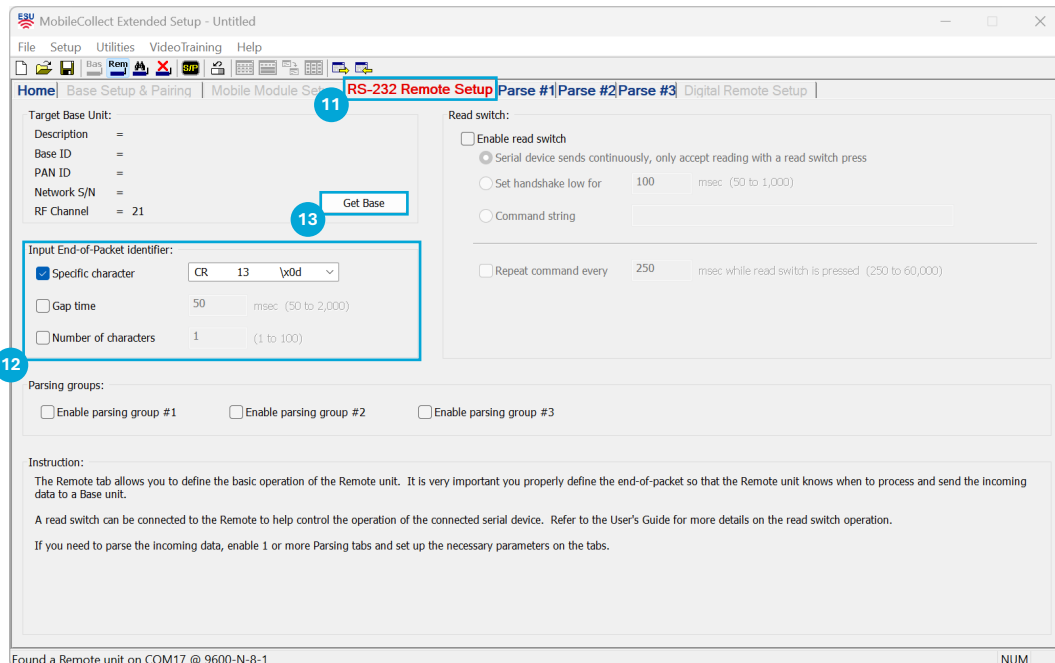
5. Next, ensure the RS-232 Remote is connected to the PC via USB. Change the Setup program to look for Remotes.
6. Find the Remote.
7. Note the Remote ID.
8. If the Remote has been paired to a Base Receiver already, info about the Base will be displayed in the “Target Base:” area. This will be blank if the Remote has not been paired.
9. Select the correct Communication Parameters for the RS-232 device the Remote will be connected to.
10. If **Auto Baud** detection is selected, the RS-232 Remote can automatically select the Comm Parameters for you. To run Auto Baud mode, reset the Remote, when all 6 LEDS remain illuminated after startup, press the print button on the RS-232 Device. If successful, the lower right green LED will blink 5 times. Refer to the Hardware User Manual, section 4.3.1, for more information.



11. Navigate to the “RS-232 Remote Setup Tab”

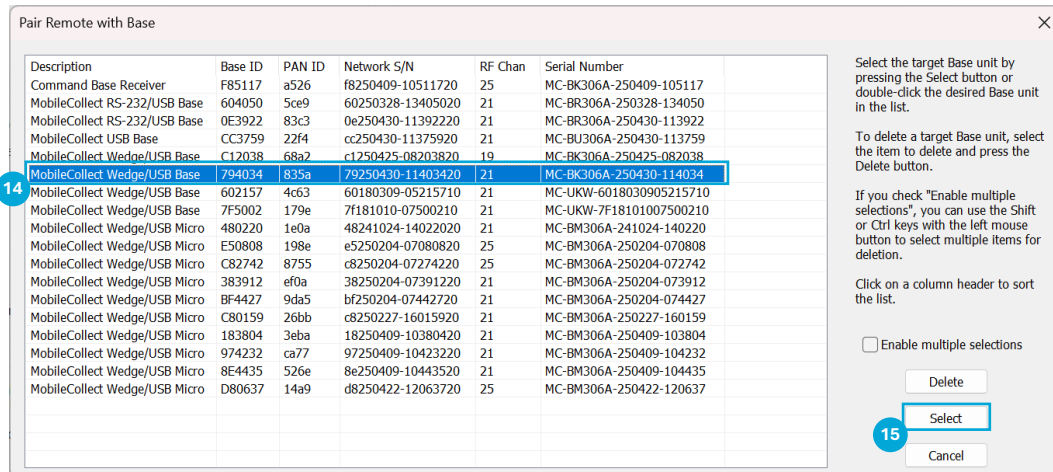
12. Ensure the correct EOP Character or option is selected. The correct EOP can be determined from the RS-232 device’s user manual

13. Click “Get Base” to resume the pairing process.



14. The “Pair Remote with Base” window will appear. This window lists all the Base Receivers that have been connected to a setup program on the PC. Select the Base Receiver with the ID as noted in step 3.

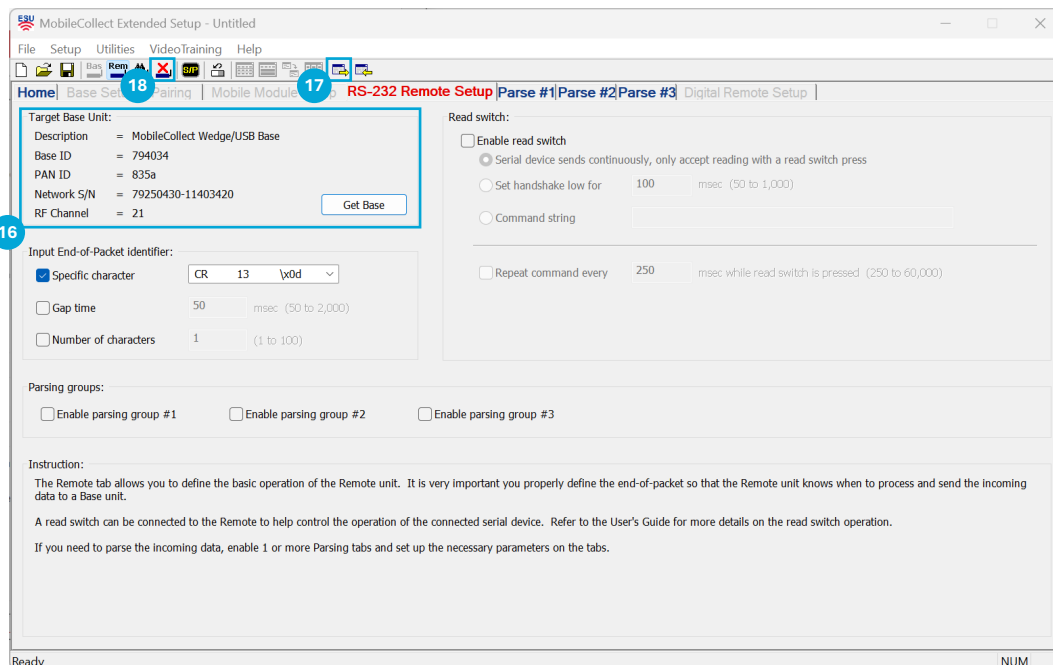
15. With the target Base highlighted, press “Select” to finalize the selection.



16. The target Base ID can now be seen in the “Target Base Unit” area

17. The Base selection needs to be sent to the RS-232 Remote to load the info onto the Remote. Send all updates made in the setup program to the Remote by pressing the “Send Setup” Button.

18. Disconnect the Remote from the Setup Program.



4. RS-232 Remote Pairing and Initial Setup – Base Setup

19. Return to the Home Tab

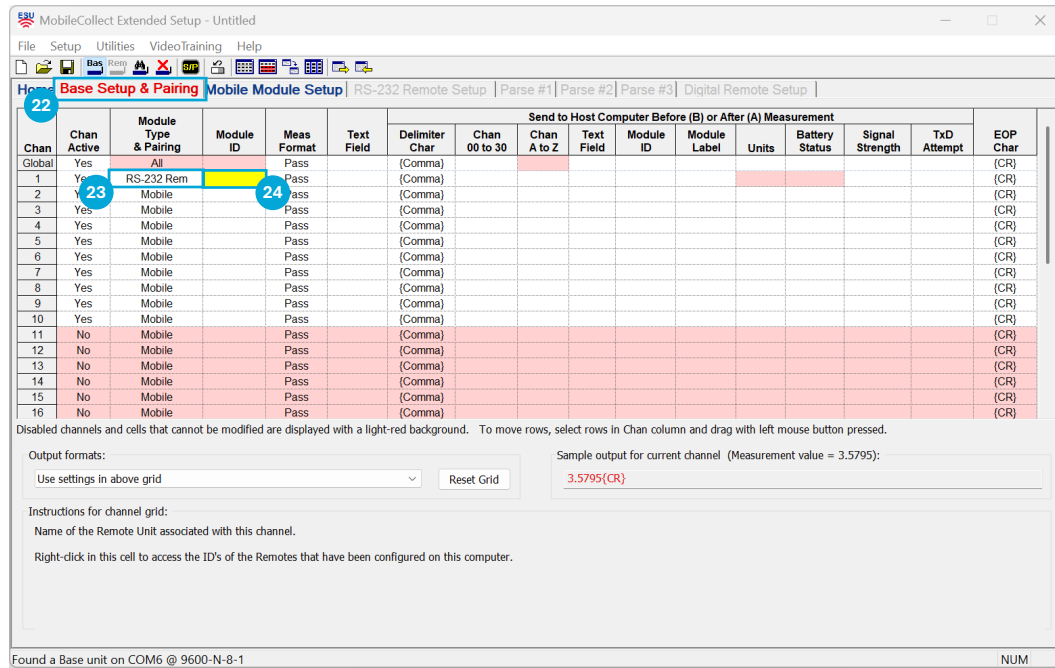
20. Change the Setup program to look for Bases.

21. Find the Base.

22. Navigate to the “Base Setup & Pairing” Tab

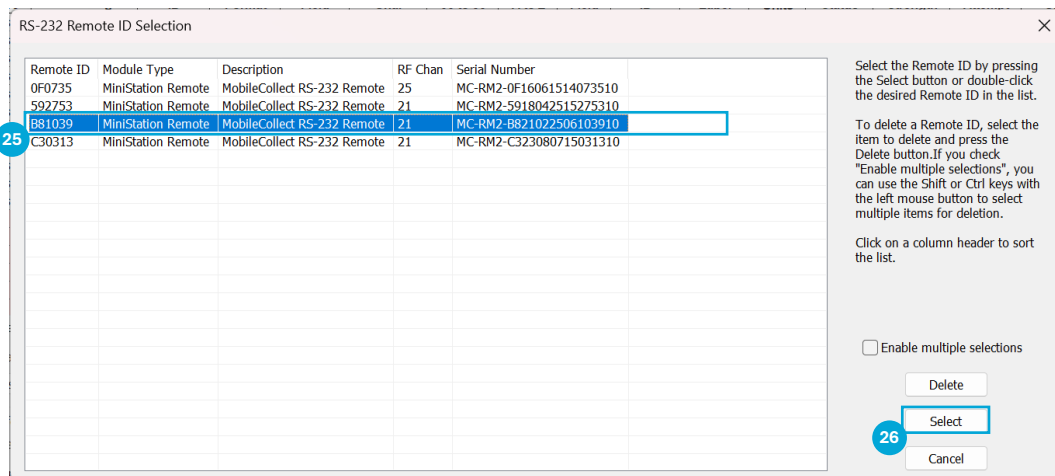
23. Select the “Module Type & Pairing” cell in desired channel to pair the Remote to. Once highlighted, type “r” on the keyboard to indicate and RS-232 Remote. Note the instructions in the bottom of the window if you get stuck.

24. Right Mouse Button (RMB) Click on the “Module ID” Cell in the same channel.



25. The “RS-232 Remote ID Selection” Window will appear. This window lists all the Remotes that have been connected to a setup program on the PC. Select the remote with the ID as noted in step 7.

26. With the target Remote highlighted, press “Select” to finalize the selection.



27. The Remote can now be seen in the selected channel’s Module ID Cell.

28. Make any custom output formats as desired

29. Send the updates to the Base Receiver to finalize Base setup.

MobileCollect Extended Setup - Untitled

File Setup Utilities Video Training Help

Home Base Setup & Pairing Mobile Module Setup RS-232 Remote Setup Parse #1 Parse #2 Parse #3 Digital Remote Setup

Chan	Chan Active	Module Type & Pairing	Module ID	Mess Format	Text Field	Delimiter Char	Send to Host Computer Before (B) or After (A) Measurement							Signal Strength	TxD Attempt	EOP Char
							Chan 00 to 30	Chan A to Z	Text Field	Module ID	Module Label	Units	Battery Status			
Global	Yes	All		Pass		(Comma)										(CR)
1	Yes	RS-232 Remote	B81039	Pass		(Comma)										(CR)
2	Yes	Mobile		Pass		(Comma)										(CR)
3	Yes	Mobile		Pass		(Comma)										(CR)
4	Yes	Mobile		Pass		(Comma)										(CR)
5	Yes	Mobile		Pass		(Comma)										(CR)
6	Yes	Mobile		Pass		(Comma)										(CR)
7	Yes	Mobile		Pass		(Comma)										(CR)
8	Yes	Mobile		Pass		(Comma)										(CR)
9	Yes	Mobile		Pass		(Comma)										(CR)
10	Yes	Mobile		Pass		(Comma)										(CR)
11	No	Mobile		Pass		(Comma)										(CR)
12	No	Mobile		Pass		(Comma)										(CR)
13	No	Mobile		Pass		(Comma)										(CR)
14	No	Mobile		Pass		(Comma)										(CR)
15	No	Mobile		Pass		(Comma)										(CR)
16	No	Mobile		Pass		(Comma)										(CR)

Disabled channels and cells that cannot be modified are displayed with a light-red background. To move rows, select rows in Chan column and drag with left mouse button pressed.

Output formats:
Use settings in above grid

Sample output for current channel (Measurement value = 3.5795):
3.5795(CR)

Instructions for channel grid:
Name of the Remote Unit associated with this channel.
Right-click in this cell to access the ID's of the Remotes that have been configured on this computer.

Ready NUM

30. The RS-232 Remote has been Paired with Base Receiver. This pairing will remain between the RS-232 Remote and Base until it is changed in the setup program, either unit is factory reset, or a firmware update occurs. MobileCollect pairing remains through power cycles and long periods of dormancy.