

Mobile Module – Continuous, TIR, & Absolute Read Modes

APPLICABLE DEVICES

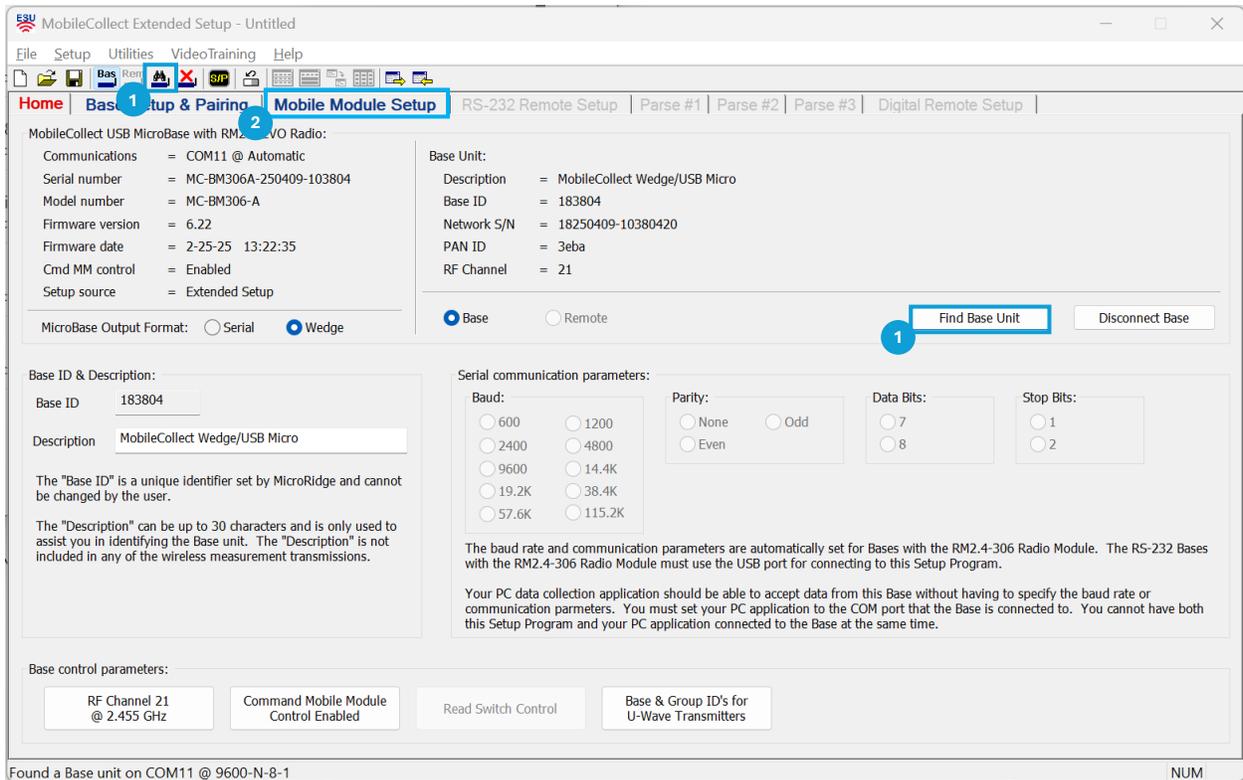
MINI MOBILE MODULE | COMMAND MOBILE MODULE | RS-232 V2 MOBILE MODULE

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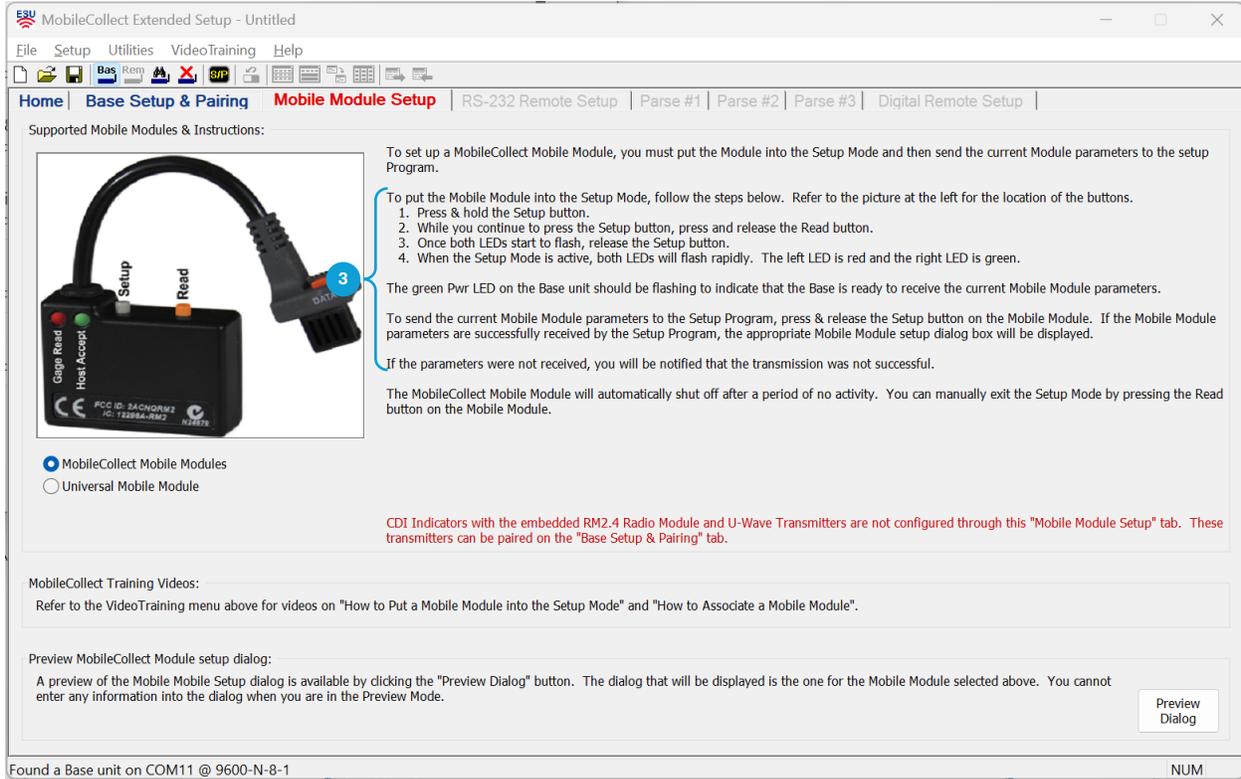
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1. Entering Mobile Module Setup in Extended Setup Program

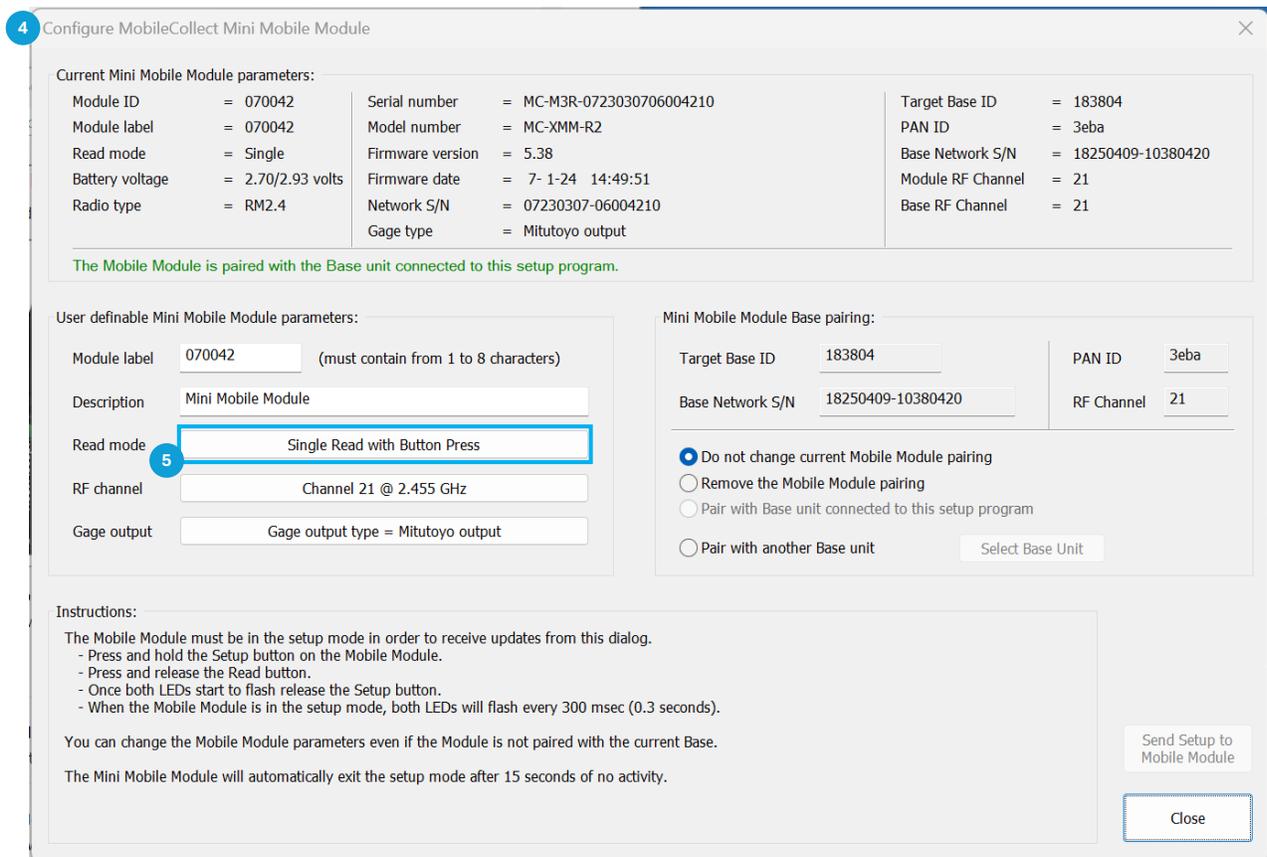
- 1. Open MobileCollect Extended Setup software and find the base.
- 2. Click on the Mobile Module Setup tab



- 3. Follow the procedure shown in the window to put the Mobile Module in “Setup Mode”. Once in setup mode, press the setup button again.

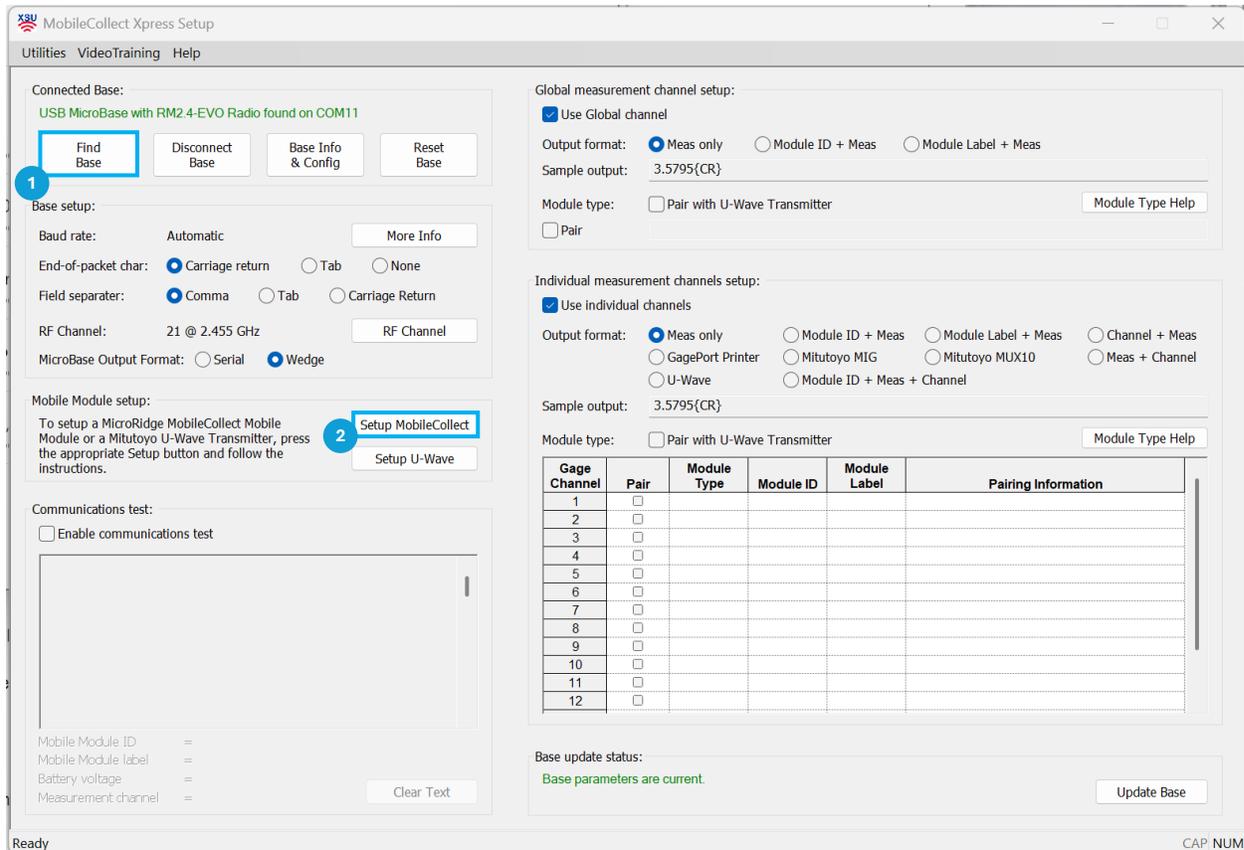


4. The “Configure MobileCollect Mobile Module” Window will appear.
5. Press the Read Mode Button to open the Read Mode Window. Proceed to Section 3.

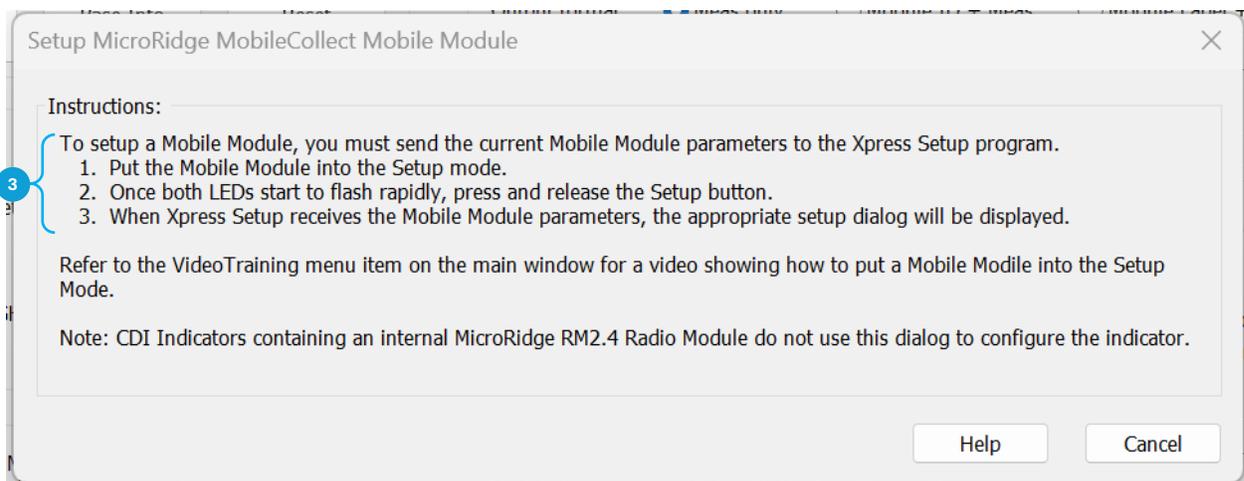


2. Entering Mobile Module Setup in Xpress Setup Program

1. Open MobileCollect Xpress Setup software and find the base.
2. Click on the “Setup MobileCollect” Button



3. Follow the procedure shown in the window to put the Mobile Module in “Setup Mode”. Once in setup mode, press the setup button again.



4. The “Mobile Module Setup” Window will appear.

5. Press the Read Mode Button to open the Read Mode Window. Proceed to Section 3.

4 Mini Mobile Module Setup

Module information:

Module ID = 070042	Firmware version = 5.38	Target Base ID = 183804
Module label = 070042	Firmware date = 7- 1-24 14:49:51	Connected Base ID = 183804
Read mode = Single	Gage type = Mitutoyo output	
Battery voltage (radio on) = 2.70 volts	RF Channel = 21	
Battery voltage (radio off) = 2.92 volts		

Note: To maximize battery life, the Mobile Module is turned off after this dialog is displayed.

Module is paired with connected Base

User definable parameters:

Module label (must contain from 1 to 8 characters)

Read mode **5**

Mini Mobile Module gage output type:

Enable gage output type selection Gage Help

Various Cables See Gage Help

<input type="radio"/> Federal Maxum	<input type="radio"/> Mahr Pocket Surf 1 & 10	<input type="radio"/> Opto Simplex
<input type="radio"/> Insize Calliper	<input type="radio"/> Mahr Serial	<input type="radio"/> Starrett TTL
<input type="radio"/> Insize Indicator	<input type="radio"/> Mahr uMaxum II	<input type="radio"/> TruPosition
<input type="radio"/> Insize 2-Button Micrometer	<input checked="" type="radio"/> Mitutoyo output	<input type="radio"/> Remote Read Switch
<input type="radio"/> Insize 3-Button Micrometer	<input type="radio"/> Ono Sokki	<input type="radio"/> Transmit Label Field
<input type="radio"/> Mahr Pocket Surf IV	<input type="radio"/> Opto Duplex	

The gage output type must be specified by the user for the Mini Mobile Module. Several of the gage output formats can be found on gages from different manufacturers.

Gages from other manufacturers such as CDI, LMI, etc. also produce gages that have a Mitutoyo compatible output. If your gage is manufactured by Mitutoyo, it will have a Mitutoyo output. Mitutoyo uses several different connector styles for their gage cables.

Instructions & Battery Information:

The Mobile Module must be in the Setup Mode in order to receive the updates from this dialog. You can change the Mobile Module parameters even if the Module is not paired with the current Base. You must Close this dialog before you can update a different Mobile Module.

Help
Update Module
Close

3. Continuous and Absolute Read Mode Setup

1. Mobile Module Read Mode is set to send a Single Reading with every button press by default.
2. To change to a Continuous Read Mode, select the Desired Continuous Read Mode radio button
3. To change to absolute value mode, select the Absolute Value radio button

Read Mode Setup

Read mode:

- 1 Single read with button press
- 2 Continuous read: Press read button to start. Release read button to stop.
- 3 Continuous read: Press & release read button to start. Press & release read button to stop.

Single read with button press and convert reading to absolute value
Absolute value is only supported on Mini Mobile Modules with versions 5.19 or later and Command and V2 Mobile Modules with 5.36 or later.

Continuous read mode & TIR:

Gap between readings

Use gap times from 10 to 10000 msec 500

Use gap times from .05 to 130.00 minutes 1.00

Delay prior to first reading 5 (1 to 30 seconds)

Total read time 15 (1 to 4000 seconds)

Total number of readings 20 (1 to 3000)

Note: 1,000 msec = 1 second

Enable TIR When TIR is enabled, data is only transmitted at the end of the read cycle.
Data sent: Number of readings, Minimum value, Maximum value, Range
Example: 53,1.0235,1.0310,.0075

Set Defaults OK Cancel

4. When one of the Continuous Read Modes is selected, the lower “Continuous read mode & TIR” section will activate.
5. Time between readings can be set from 10 milliseconds to 130 minutes.
6. A one-time delay can be added. This is useful to prevent unwanted/erroneous initial data. For example, a delay can allow an operator time to setup the fixture before measurements are recorded.
7. Total read time and/or total number of readings can be set to end continuous read mode.
 - a. Note: If both parameters are selected, the continuous readings will stop at whichever parameter is met first.
 - b. Note: If “Press read button to start. Release read button to stop” mode is select, the read button must be held down until the time or number of readings parameter is met.
8. TIR Mode is a special mode where the Mobile Module will take continuous readings based on the selected parameters. After continuous readings have ended, the Mobile Module will output the Number of readings taken, Minimum Value, Maximum Value, and Range.

Read Mode Setup

Read mode:

- Single read with button press
- Continuous read: Press read button to start. Release read button to stop.
- Continuous read: Press & release read button to start. Press & release read button to stop.
- Single read with button press and convert reading to absolute value
Absolute value is only supported on Mini Mobile Modules with versions 5.19 or later and Command and V2 Mobile Modules with 5.36 or later.

Continuous read mode & TIR:

Gap between readings

- Use gap times from 10 to 10000 msec
- Use gap times from .05 to 130.00 minutes

Delay prior to first reading (1 to 30 seconds)

Total read time (1 to 4000 seconds)

Total number of readings (1 to 3000)

Note: 1,000 msec = 1 second

Enable TIR
When TIR is enabled, data is only transmitted at the end of the read cycle.
Data sent: Number of readings, Minimum value, Maximum value, Range
Example: 53,1.0235,1.0310,.0075

Set Defaults OK Cancel

9. When completed, click OK to close the “Read Mode Setup” Window. Proceed to update the Mobile Module with the new parameters. Note that you may need to put the Mobile Module Back into Setup Mode to send the new parameters.

Configure MobileCollect Mini Mobile Module

Current Mini Mobile Module parameters:

Module ID = 070042	Serial number = MC-M3R-0723030706004210	Target Base ID = 183804
Module label = SALES	Model number = MC-XMM-R2	PAN ID = 3eba
Read mode = Single	Firmware version = 5.38	Base Network S/N = 18250409-10380420
Battery voltage = 2.63/2.85 volts	Firmware date = 7- 1-24 14:49:51	Module RF Channel = 21
Radio type = RM2.4	Network S/N = 07230307-06004210	Base RF Channel = 21
	Gage type = Mitutoyo output	

The Mobile Module is paired with the Base unit connected to this setup program.

User definable Mini Mobile Module parameters:

Module label (must contain from 1 to 8 characters)

Description

Read mode

RF channel

Gage output

Mini Mobile Module Base pairing:

Target Base ID PAN ID

Base Network S/N RF Channel

- Do not change current Mobile Module pairing
- Remove the Mobile Module pairing
- Pair with Base unit connected to this setup program
- Pair with another Base unit

Instructions:

The Mobile Module must be in the setup mode in order to receive updates from this dialog.

- Press and hold the Setup button on the Mobile Module.
- Press and release the Read button.
- Once both LEDs start to flash release the Setup button.
- When the Mobile Module is in the setup mode, both LEDs will flash every 300 msec (0.3 seconds).

You can change the Mobile Module parameters even if the Module is not paired with the current Base.

The Mini Mobile Module will automatically exit the setup mode after 15 seconds of no activity.

Send Setup to Mobile Module

Close

Extended Setup

Mini Mobile Module Setup

Module information:

Module ID	= 070042	Firmware version	= 5.38	Target Base ID	= 183804
Module label	= SALES	Firmware date	= 7- 1-24 14:49:51	Connected Base ID	= 183804
Read mode	= Continuous	Gage type	= Mitutoyo output		
Battery voltage (radio on)	= 2.50 volts	RF Channel	= 21		
Battery voltage (radio off)	= 2.85 volts				

Note: To maximize battery life, the Mobile Module is turned off after this dialog is displayed.

Module is paired with connected Base

User definable parameters:

Module label (must contain from 1 to 8 characters)

Read mode

Mini Mobile Module gage output type:

Enable gage output type selection Gage Help

Various Cables See Gage Help

- Federal Maxum
- Insize Caliper
- Insize Indicator
- Insize 2-Button Micrometer
- Insize 3-Button Micrometer
- Mahr Pocket Surf IV
- Mahr Pocket Surf 1 & 10
- Mahr Serial
- Mahr uMaxum II
- Mitutoyo output
- Ono Sokki
- Opto Duplex
- Opto Simplex
- Starrett TTL
- TruPosition
- Remote Read Switch
- Transmit Label Field

The gage output type must be specified by the user for the Mini Mobile Module. Several of the gage output formats can be found on gages from different manufacturers.

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Instructions & Battery Information:

The Mobile Module must be in the Setup Mode in order to receive the updates from this dialog. You can change the Mobile Module parameters even if the Module is not paired with the current Base. You must Close this dialog before you can update a different Mobile Module.

Help

9 Update Module

Close

Xpress Setup