

Transmitter to Receiver ratio

How many transmitters can
link to a single receiver?

November 2022



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Overview

- The information in this document applies to:
 - all MobileCollect receiver and transmitter models
- The number of transmitters that can link to a single receiver depends upon:
 - the information contained in the data packet
 - the MobileCollect Setup program being used

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Channel ID

- The limiting factor is whether the gage data packet includes a “Channel ID”

Data Packet example

```
5.12,01  
10.99,01  
16.74,01  
20.51,01
```

Measurement

Channel ID

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Key item

- If a “Channel ID” is not included in the data packet, there is no limit to the number of transmitters that can link to a single receiver

Channel ID	Limitation
Not Included	None
Included	Limited

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Setup Program

- The maximum number of transmitters per receiver is different for Xpress Setup and Extended Setup

Setup Program	Maximum
Xpress Setup	15 transmitters per receiver
Extended Setup	30 transmitters per receiver

* maximums only applies if a “Channel ID” is part of the data packet

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Examples

Output Format	Channel ID	Xpress Setup	Extended Setup
Measurement only	NO	No limit	No limit
Module ID + Measurement	NO	No limit	No limit
Module Label + Measurement	NO	No limit	No limit
Mitutoyo UWave	NO	No limit	No limit
Measurement + Channel ID	YES	15 transmitters	30 transmitters
Channel ID + Measurement	YES	15 transmitters	30 transmitters
Mitutoyo MIG	YES	15 transmitters	30 transmitters
Mitutoyo MUX 10	YES	15 transmitters	30 transmitters

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Xpress Setup

- Choose from multiple pre-defined formats

MobileCollect Xpress Setup

Utilities VideoTraining Help

Connected Base:
Keyboard Wedge/USB Base found on COM7 at 9600-N-8-1

Find Base Disconnect Base Base Info & Config Reset Base

Base setup:

Baud rate: 9600 19.2K 38.4K

End-of-packet char: Carriage return Tab None

Field separator: Comma Tab Carriage Return

RF Channel: 21 @ 2.455 GHz RF Channel

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

Global measurement channel setup:

Use Global channel

Output format: Meas only Module ID + Meas Module Label + Meas

Sample output: 3.5795{CR}

Module type: Pair with U-Wave Transmitter 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

Sample output: 3.5795{CR}

Module type: Pair with U-Wave Transmitter Pair

Gage Channel	Pair	Module Type	Module ID	Module Label	Pairing Information
1	<input type="checkbox"/>				
2	<input type="checkbox"/>				
3	<input type="checkbox"/>				
4	<input type="checkbox"/>				
5	<input type="checkbox"/>				

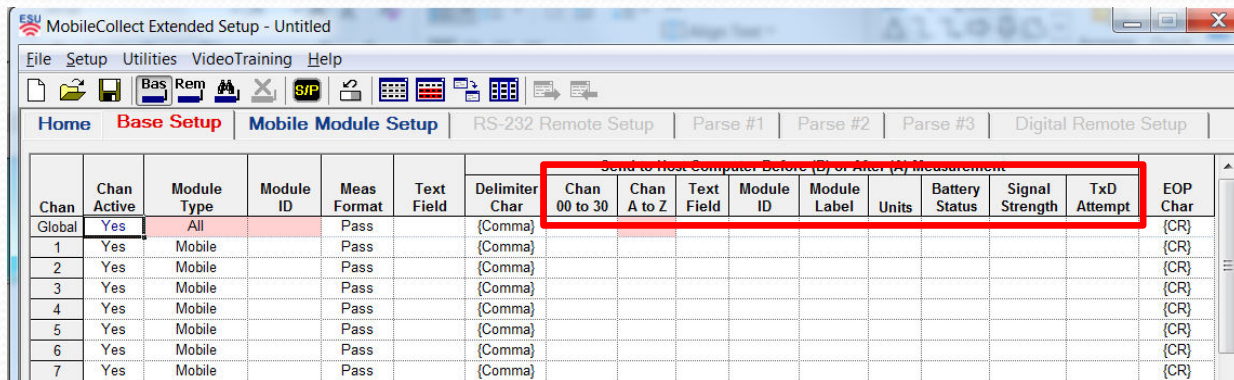
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Extended Setup

- There are no pre-defined output formats in the Extended Setup program
 - Output formats are user-defined using the “Base Setup” tab



Chan	Chan Active	Module Type	Module ID	Meas Format	Text Field	Delimiter Char	Send to Host Computer Before (S) or After (A) Measurement							EOP Char	
							Chan 00 to 30	Chan A to Z	Text Field	Module ID	Module Label	Units	Battery Status		Signal Strength
Global	Yes	All		Pass		{Comma}									{CR}
1	Yes	Mobile		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}

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Contact MicroRidge

- Contact MicroRidge Tech Support for assistance with output format options:
 - MicroRidge Tech Support
 - Monday - Friday
 - Hours: 8am – 4:30pm Pacific Time
 - Phone: 541-593-1656
 - Email: support@microridge.com

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