

MU100

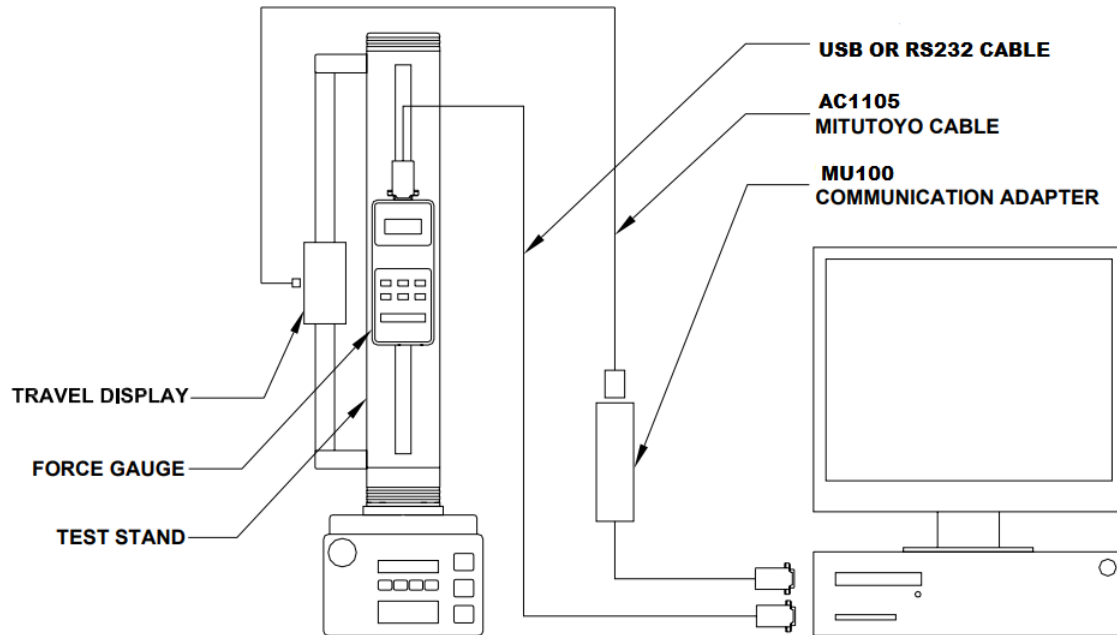
MITUTOYO TO USB COMMUNICATION ADAPTER

User's Guide

MARK-10[®]

1 SETTING UP

The MU100 is a communication adapter designed to convert data from a Mitutoyo device to USB format for use with a PC or other device. A typical application is shown below in which a Mitutoyo travel display mounted to a Mark-10 test stand is connected to a PC using a Mitutoyo cable (available separately) and MU100 communication adapter:



2 USING THE MU100

Connect the Mitutoyo device as shown in the figure above.

To use the MU100, download and install the USB driver from www.mark-10.com/resources.

Communication settings are permanently set to the following:

Baud Rate: 9600
Data Bits: 8
Stop Bits: 1
Parity: None

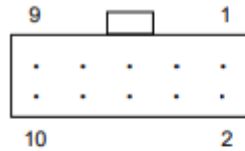
The following is a list of supported commands and their explanations. A CR (carriage return) is not required at the end of any of the commands.

User commands (commands can be upper or lower case):

X or R	Read device.
B	Begin continuous gauge read.
S	Stop continuous gauge read.

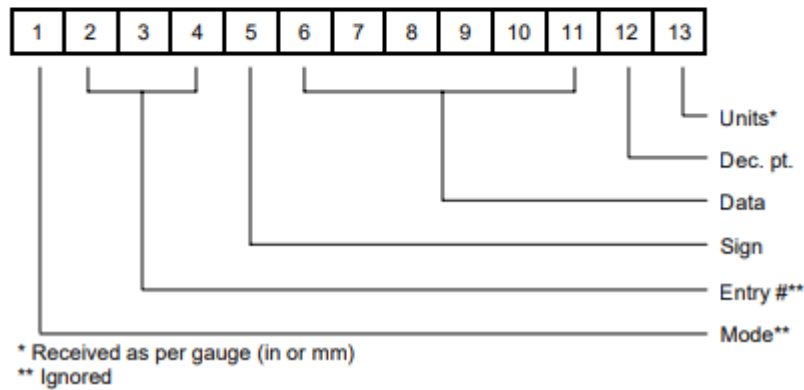
Invalid commands will be discarded.

INPUT CONNECTOR



- Pin 1: Ground
- Pin 2: Data - Input
- Pin 3: Clock - Input
- Pin 4: Ready (Active Low) - Input
- Pin 5: Request (Active Low) - Output
- Pins 6-10: No Connection

INPUT DATA FORMAT



3 OUTPUT DATA FORMAT

The data format of a reading from a Mitutoyo device is fixed and cannot be modified by the user. The MU100 sends the measurement left justified and the measurement is terminated with a carriage return (0x0D) and a line feed (0x0A) pair. There are no leading, trailing or embedded blanks in the measurement string. The length of the measurement string will vary based on the number of digits in the measurement.

A few examples are shown below:

- 56.29 M
- 2.2165 I
- 0.87 M
- 0.0345 I



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