

Models **MRS100 / MRS100A**

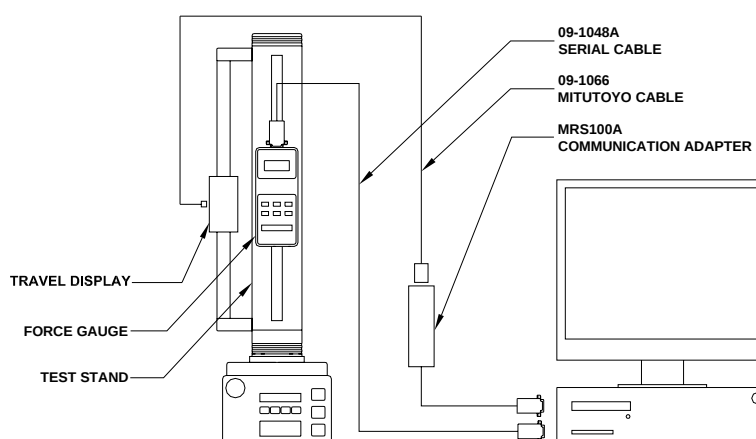
MITUTOYO / RS-232 COMMUNICATION ADAPTERS

User's Guide

MARK-10

SETTING UP

The MRS100 / MRS100A is a communication adapter designed to convert data from a Mitutoyo device to RS-232 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 MRS100A communication adapter:

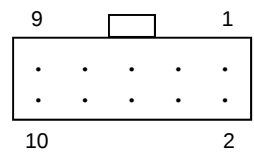


USING THE MRS100 / MRS100A

Connect the Mitutoyo device as shown in the figure above. Set the communication parameters of the RS-232 channel to 1200 baud, 8 data bits, 1 stop bit, and no parity.

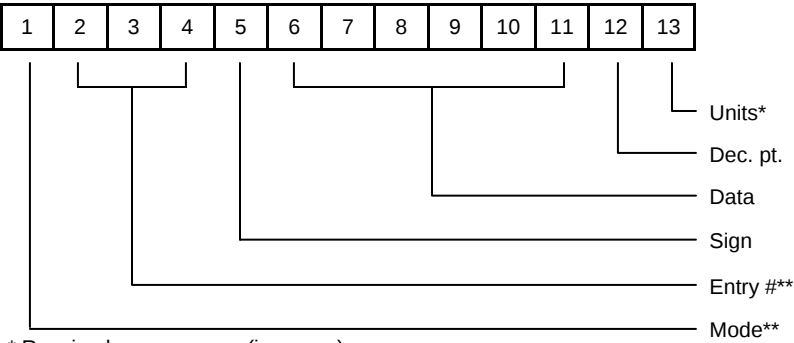
Transmission of data can be initiated by the RS-232 device or software, in which case the MRS100 / MRS100A will automatically translate the data and transmit to the RS-232 device. However, the RS-232 device can request data from the instrument by transmitting ASCII "?" or "X", followed by <CR> or <CR><LF>. Note that no separate power connection to the MRS100 / MRS100A is required, as the power available from the RS-232 channel is sufficient for its operation.

INPUT CONNECTOR



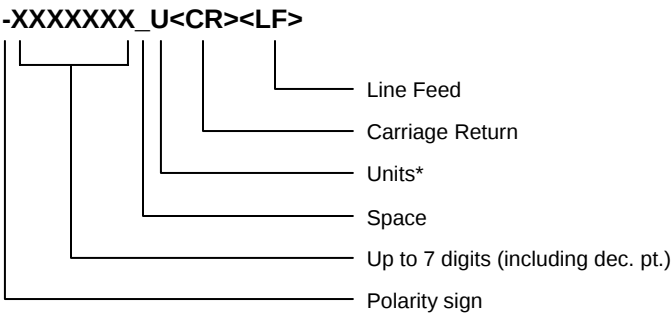
- Pin 1: Ground
- Pin 2: Data - Input
- Pin 3: Clock - Input
- Pin 4: Ready (Active Low) - Input
- Pin 5: Request (Active Low) - Output
- Pins 6-10: No Connection

INPUT DATA FORMAT



* Received as per gauge (in or mm)
** Ignored

OUTPUT DATA FORMAT (RS-232)



* As per input from Mitutoyo (I=inches, M=mm)

WARRANTY

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Mark-10 Corporation

11 Dixon Avenue
Copiague, NY 11726 USA
1-888-MARK-TEN
Tel: 631-842-9200
Fax: 631-842-9201
Internet: www.mark-10.com
E-mail: info@mark-10.com



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