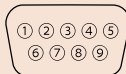## Specifications
- **264-002**
- Model: **MUX-10F**
- Data input port: 4 channels for Digimatic gages
- Output: (RS-232C)
  Data output Via RS-232C interface:
  Data transmission method: Half-duplex
  Data transmission code: ASCII/JIS
  Data length: 8 bits
  Parity check: None
  Stop bit: 1
  Data transmission speed: 300/600/1200/2400/9600/
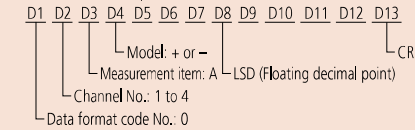 19200 bps
- Connector specification:

① ② ③ ④ ⑤
⑥ ⑦ ⑧ ⑨

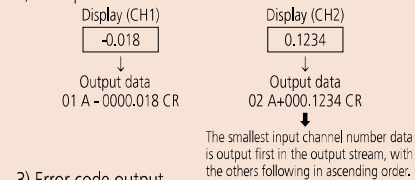| Pin No.	Signal	Function	in/out
1	CD		out
2	RD	Received data	out
3	TD	Communication data	in
4			
5	GND	Ground	
6	DR		out
7			
8	CS		out
9			

Note: For connection with a PC, use a commercially available RS-232C straight cable.

- Data format
 1) When data output

D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13
Model: + or –
Measurement item: A — LSD (Floating decimal point)
Channel No.: 1 to 4
Data format code No.: 0
CR

 2) Example of format

Display (CH1)
-0.018
↓
Output data
01 A - 0000.018 CR

Display (CH2)
0.1234
↓
Output data
02 A+000.1234 CR
↓
The smallest input channel number data is output first in the output stream, with the others following in ascending order.

 3) Error code output

D1 D2 D3 D4
CR
Error code No.
Channel No.: 1 to 4
Error format: 9
1: No data input
2: Loaded data with format other than specified

- Power supply: AC adapter (9 V, 500 mA)
- External dimensions: 91.4 (W) ×92.5 (D) ×50.4 (H) mm
Note: Communication software is not included.

Digimatic/RS-232C Interface Unit Multiplexer MUX-10F

- Multiplexer **MUX-10F** is a measurement data transfer device that converts incoming Digimatic output measurement data to RS-232C and outputs it to other devices such as a PC and sequencer.
- Up to four measuring instruments with Digimatic output can be connected.
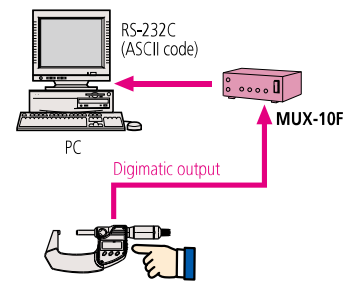

264-002 MUX-10F

Typical Application

### Data input using the data button on the Digimatic gage
- If the Digimatic gage has a data button, data is sent to the **MUX-10F** from the gage, converted to RS-232C and sent out.

RS-232C (ASCII code)
MUX-10F
PC
Digimatic output
Press the data button on the measuring gage.

Data input using the load switch
- If the Digimatic gage does not have a data button, or when simultaneous measurements are performed, the **MUX-10F** load switch is used to poll data from the measuring gage (s)selected by the tool selection switch (es), converted to RS-232C, and sent out.
- If multiple measuring gages are selected by the tool selection switch, data is input in the order of channels 1 through 4.
- Optional foot switch (**937179T**) is available for quick data entry.
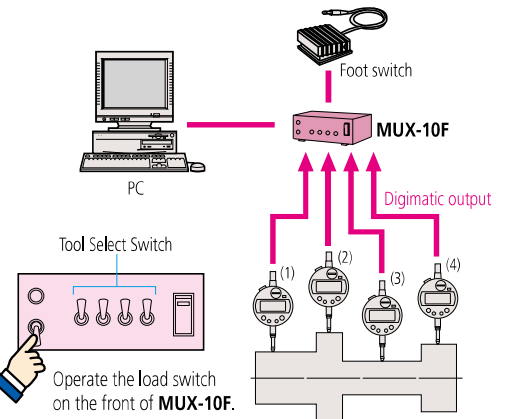
Foot switch
MUX-10F
PC
Digimatic output
Tool Select Switch
Operate the load switch on the front of **MUX-10F**.
(1) (2) (3) (4)

Data input using the external commands
- Data from a specified measuring gage connected to **MUX-10F** can be polled (ch 1 to 4) by inputting a command from the PC.

Commands (ASCII)	Transfer channels
1 (ASCII code31) CR	1
2 (ASCII code32) CR	2
3 (ASCII code33) CR	3
4 (ASCII code34) CR	4
*A (ASCII code41) CR	1, 2, 3, 4
*B (ASCII code42) CR	1, 2, 4
*C (ASCII code43) CR	1, 3, 4
*D (ASCII code44) CR	2, 3, 4
E (ASCII code45) CR	1, 2, 3
F (ASCII code46) CR	1, 2
G (ASCII code47) CR	1, 3
H (ASCII code48) CR	1, 4
I (ASCII code49) CR	2, 3
J (ASCII code50) CR	2, 4
K (ASCII code51) CR	3, 4

* Command will operate the same as previous **MUX-10** when 4-channel mode is turned off.

PC
Command
Measurement data
MUX-10F
Digimatic output
(1) (2) (3) (4)

Mitutoyo