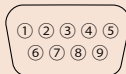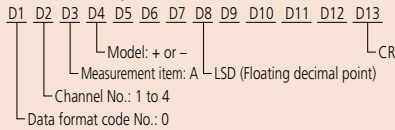## Specifications

- **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/
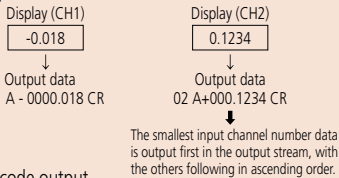 19200 bps
- Connector specification:

①②③④⑤
⑥⑦⑧⑨

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. ——— 1: No data input
— Channel No.: 1 to 4 —— 2: Loaded data with format
— Error format: 9   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.
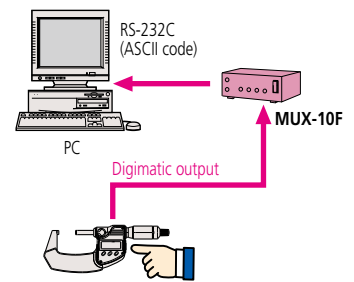- Up to four measuring instruments with Digimatic output can be connected.

**264-002
MUX-10F**
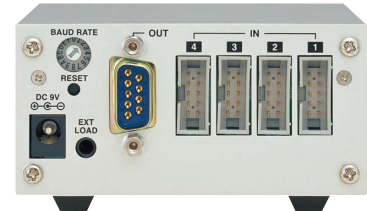
Typical Application

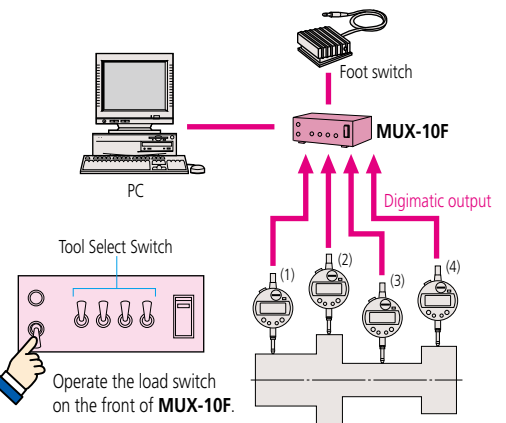### Data input using the data button on the Digimatic gage

- 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

(1) (2) (3) (4)

Operate the load switch
on the front of **MUX-10F**.

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)

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