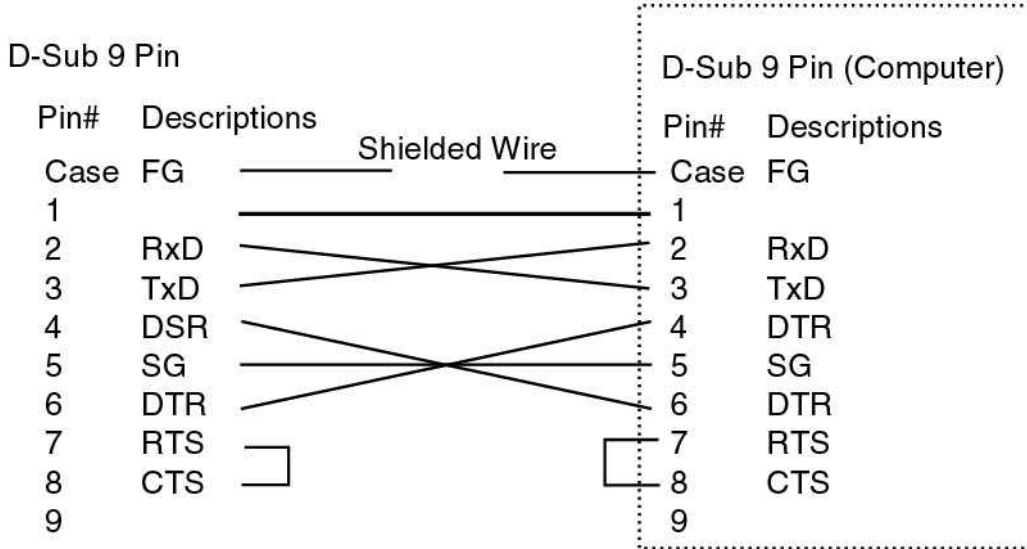# 1. Information for data communication

Many of TOMEY products can send measurement data to PC.
This is an instruction to do data communication between PC and TOMEY unit.

Required tool
1) RS-232C cable (2m, cross-link, male-female) Art-No. 904-036
2) Software (ex: Hyper terminal)

Cable

Communication protocol
X-modem: TL-900, TL-2000, TL-3000, TL-2000A, TL-3000A. TR-1000, RC-1000, TR-3000, RC-3000, TR-4000, RC-4000, RC-5000, AL-2000, UD-6000 (older software than 1.30/2.20)

Z-modem: AL-100, SP-3000, AL-3000, UD-6000 (new software than and 1.30/2.20)

Other way: TMS-3, TMS-4, RT-6000

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2. Communication with X-modem format product.

1. Connect the Computer and TOMEY unit by RS-232C cable.
   (If you need, use gender changer)

2. Open software which can read binary code. (For example: HyperTerminal)

3. Adjust communication condition on Tomey unit and communication software of the computer
   (Baud rate, Data bit, Parity, Stop bit and so on)

4. Collect some data on the Tomey unit and send data to the computer
   (Carriage return should be active by setting of software)

*Caution
If Tomey product cannot change communication condition, PC has to adjust as follows.

Baud Rate	2400 bps
Data bit	7bit
Parity	Even
Stop bit	1bit
Data code	ASCII
Flow control	Xon/Xoff

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3. Communication with Z-modem format product.

1. Connect the Computer and TOMEY unit by RS-232C cable.
   (If you need, use gender changer)

2. Open software which can receive Z-mode-data. (For example: HyperTerminal)

3. Adjust communication condition on Tomey unit and communication software of the computer.
   (Baud rate, Data bit, Parity, Stop bit and so on)

4. Collect some values on the Tomey unit and send data to the computer

Information

A. You will send measurement data with "CSV" format. This file able to be read with Microsoft Excel.
B. File name is saved as "TOMEY. csv".
C. If you select simple Z-modem for receiving data it will save last as actual TOMEY.CSV, The Computer automatically rename the older data to TOMEY0.CSV TOMEY1.CSV TOMEY2.CSV ...
D. If you select Z-modem with crash recover, new data is also "TOMEY. CSV" file. It must be removed for the next measurement

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