FX-08 Ethernet Interface

A&D Company, Limited

When this Ethernet interface (FX-08) is installed into the A&D balances such as FX-i, FZ-i, HR-A, HR-AZ, GX-A and GF-A, the balances can communicate with a computer through the LAN port and the weighing data can be managed with the software “WinCT-Plus”.

Unpacking the Ethernet Board

- MAC address
- IP address label (5 labels)
  Write the IP address on a label and use it for identification.
- IP address protective cover (5 covers)
  Affix a protective cover over the IP address label.

Installing the Ethernet Board

Caution: Remove the AC adapter from the balance before doing the following work.

Step 1 Record the MAC address* (Hardware address) printed on the FX-08 (Shown in the illustration). The MAC address is required when specifying the IP address.
  Example: 00-20-4A-84-23-6A

Step 2 Unfasten the two screws from the rear of the balance and remove the panel. Peel the connector off that is attached on the panel with double-side adhesive tape.

Step 3 Connect the connector to the FX-08.

Step 4 Install the FX-08 in the balance and secure it using the two screws in step 2.

Connecting the Ethernet Board to a Computer

Caution
- Contact the network manager before connecting the FX-08 to a network.
- A network error may occur due to the FX-08. A&D and dealers assume no responsibility for errors.
- Preset the IP address and subnet mask into the FX-08 one by one. The IP address, 172.16.100.2, is set for all FX-08 at the factory. Do not duplicate IP addresses.
- The IP address cannot be restored to factory setting.

We recommend that you write the IP address on the supplied label.

Preparation

Please download each software from A&D website (https://www.aandd.jp/products/software/software.html) for below.
(1) Setting procedure “WinCT-Plus” instruction manual
(2) IP address setting software “Device Installer”
(3) Data acquisition software “WinCT-Plus”

Step 1 Connect the Ethernet board and the computer using a hub and straight cables. (When connecting directly without using a hub, use a cross cable)

Step 2 Reconnect the AC adapter to the balance.

Step 3 Preset the IP addresses and subnet mask of the FX-08 and the computer. For the setting procedure, refer to the “WinCT-Plus” instruction manual.

A communication error may occur with the wrong operation.

Step 4 Write the IP address on “IP address label” and affix it where you can see the address easily.

Step 5 Install the data acquisition software to refer to the “WinCT-Plus” instruction manual.

The Outline for Windows Communication Software

Run the data acquisition software “RsMulti”. Menu: [Start]→[Program]→[A&D WinCT-Plus]→[RsMulti]. Refer to the [A&D WinCT-Plus]→[Manual (for the OP-08)] for the operation.

- The software can acquire data from multiple devices connected with a LAN or RS-232C.
- The software can control these devices with commands.
- The software can acquire data transmitted from devices.
- Example: When the [PRINT] key of the balance is pressed, data is output and is acquired with the computer.
- The stored data can be used with the Microsoft EXCEL, when it is installed before use.
- The software can acquire data transmitted from devices.
- Example: Up to 100 weighing instruments can be connected. However, the number of connections may be restricted depending on the computer’s performance and the frequency of data acquisition.

Example

Two balances are connected.

<table>
<thead>
<tr>
<th>Computer</th>
<th>IP address</th>
<th>Subnet mask</th>
</tr>
</thead>
<tbody>
<tr>
<td>FX-3000</td>
<td>172.16.100.1</td>
<td>255.255.0.0</td>
</tr>
<tr>
<td>FX-3000</td>
<td>172.16.100.2</td>
<td>255.255.0.0</td>
</tr>
<tr>
<td>FX-3000</td>
<td>172.16.100.3</td>
<td>255.255.0.0</td>
</tr>
</tbody>
</table>

A sample window of the “RsMulti”