# WinCT-Plus Instruction Manual (OP-08)

Please see the separate document "Manual(for the AD8526)" if the AD8526(Ethernet Converter) is used.

Ver.2.01 Mar. 21, 2008

## ${\bf Contents}$

1. Introduction	2
2. Specifications	3
3. Installing each software	4
4. Network setting	<b>5</b>
4-1. Setting a computer	6
4-2. Setting a weighing instrument and OP-08	7
5. Using data collection software RsMulti	11
5-1. Features of RsMulti	11
5-2. Setting RsMulti	12
5-3. Data acquisition with RsMulti	14
5-4. Explanations about each function of RsMulti	17
6. License Agreement	23
7. Supplementary	24
7-1. Using as a virtual COM port	24
7-2. Using a DHCP	27
8. Verify these items if communication problems occur	30

## 1. Introduction

This manual describes the operation to acquire data from a balance via an OP-08 Ethernet interface by using data acquisition software "WinCT-Plus".

Features of WinCT-Plus

-Enables data acquisition from multiple weighing instruments through Ethernet with a single computer.

-Weighing instruments up to 100 units can be connected. However, connection may be restricted depending on the computer's performance or the frequency of data acquisition.

- -Weighing instruments can be controlled by sending commands from the computer.
- -The software can collect data by pressing the [PRINT] key on the weighing instrument.
- -Recorded data can be opened easily in an Excel file. (Not applicable with Windows Vista) (Microsoft Excel should be installed in advance.)
- Please see the separate document "Manual(for the AD8526)" if the AD8526(Ethernet Converter) is used.

## 1) Necessary systems

(1)Computer	OS	Microsoft Windows 2000 onwards
	CPU	CPU equivalent to Pentium class or above recommended
	RAM	At least 32MB memory recommended
	Hard Disk	Space of at least 50MB required
	CRT	Resolution of at least of 800×600 recommended
	CD-ROM drive	
	LAN port	
2 Balance eq	uipped with an OI	<b>D-08</b>
③Ethernet h	ub*	
(4)LAN cable	$(straight cable^*)$	

Note: If Ethernet hub is not used, cross cables should be used for LAN cabling.

2) Folder structure of WinCT-Plus

English



#### 2. Specifications

**OP-08** specifications

LAN interface	10Base-T / 100Base-TX (Auto recognition)
Shape of connector	RJ45
$\operatorname{Protocol}^{*1}$	TCP/IP, UDP, ARP, ICMP, SNMP, TFTP Telnet, DHCP <sup>*2</sup> , BOOTP, AutoIP

\*1 Data acquisition software "RsMulti" uses the TCP/IP protocol.

\*2 Please see chapter "7-2 Using a DHCP" .

Factory setting

IP address	172.16.100.2
Subnet mask	255.255.0.0
Default gateway	0. 0. 0. 0
Port number	10001



\*This figure is the GH-08.

#### **3**.Installing Each Software

If it is already installed, proceed to "4.Network Setting". For windows 2000, XP or Vista, login the computer with the user account as not "Restricted user" but "Administrator".

Quit all applications and insert the "WinCT-Plus" CD-ROM into the CD-ROM drive of the computer.

(1) Installing "DeviceInstaller" software for setting the OP-08

"DeviceInstaller" is software to set IP address, etc. of OP-08.

For use of "DeviceInstaller", "Microsoft .Net Framework" Ver1.1 or higher is required.

If the "Microsoft .Net Framework" is already installed, when you open "Add or Remove Programs" in the "Control Panel," it will appear in the "Currently Installed Programs" list.

Step1 Installing "Microsoft .Net Framework"

If it is already installed, Step 1 can be skipped. Proceed to Step 2. Execute "dotnetfx.exe" in "\English\Setup Tools\DeviceInstaller\Microsoft .Net Framework Version1.1" from the CD-ROM. Follow the instructions on the display to install.

Step2 Installing "DeviceInstaller"

Execute "Setup.exe" in "\English\Setup Tools\DeviceInstaller" from the CD-ROM. Follow the instructions on the display to install.

## (2) Installing data acquisition software "RsMulti"

"RsMulti" is software to collect data from a balance with an OP-08. Execute "Setup.exe" in "\English\WinCT-Plus\Disk1" from the CD-ROM. Follow the instructions to install.

## 4. Network Setting

To implement a LAN connection, it is required to set the IP address, subnet mask, etc. for both the computer and the OP-08. Please consult with the network administrator before assigning IP addresses, etc.

**OP-08** Factory setting

IP address	172.16.100.2
Subnet mask	255.255.0.0
Port number	10001

Attention

-Do not connect the OP-08 to a backbone network.

If any failure in network should occur due to the OP-08, A&D Co., Ltd. will not assume any responsibility.

-Before connecting to an existing network, consult with the network administrator.

Setting example

Example 1) Connecting two GH balances.

For LAN cabling, straight cables should be used.

	IP address	Subnet mask
Computer	172.16.100.1	
GH-252	172.16.100.2	255.255.0.0
GH-300	172.16.100.3	



Example 2) Connecting a computer directly to a single GH balance

For LAN cabling, cross cables should be used.

	IP address	Subnet mask
Computer	172.16.100.1	
GH-252	172.16.100.2	200.200.0



#### 4-1. Setting a computer

Set the IP address and the subnet mask. Open the Property window of TCP/IP, select "Use the following IP address", and enter the IP address and the subnet mask. Please consult with the network administrator for the set values.

\*Opening the Property window of TCP/IP

#### For Windows98

Select Control Panel, Network, TCP/IP, and Property to set up.

#### For Windows2000

Select Control Panel, Dial-up and Network Connection, Local Area Connection, Internet Protocol (TCP/IP), and Property to set up.

## For WindowsXP

Select Control Panel, Network Connection, Local Area Connection, Internet Protocol (TCP/IP), and Property to set up.

The TCP/IP Properties window on the computer (e.g.WindowsXP)

Internet Protocol (TCP/IP) Prope	rties 🛛 🖓 🔀				
General					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
O Obtain an IP address automaticall	y III				
• Use the following IP address:					
IP address:	172.16.100.1				
S <u>u</u> bnet mask:	255.255.0.0				
Default gateway:	Default gateway:				
Obtain DNS server address autom	O Dbtain DNS server address automatically				
Professed DNC server add					
Alternate DNS server:	· · ·				
	Ad <u>v</u> anced				
	OK Cancel				

- 4-2. Setting a weighing instrument and OP-08
- (1) Setting a weighing instrument

Set the internal setting of the serial interface of the weighing instrument as follows:

_	
Setting item	Setting value
bPS Baud rate	2400 bps
btPr Data bit , parity bit	7 bit EVEN

This setting is the same as the factory setting.

(2) Setting an OP-08

Use "DeviceInstaller" software for setting.

Cancel the firewall function on the computer.

- Step 1 Connect the computer and the weighing instrument with the OP-08 to the same network. If multiple instruments are connected, connect one by one. Factory setting is set at the same IP address (172.16.100.2).
- Step 2 Start from the Start menu on the computer. Click "Start", "Program", "Lantronix", "DeviceInstaller" to start.
- Step 3 Click "Search" to perform automatic detection of the OP-08 connected to the network.

Lantronix DeviceInstaller 4.1.0.3					
<u>File E</u> dit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp					
Search Assign IP					
🖃 💂 Search for devices on the network. pe	Name	Group	IP Address	Hardware Address	Status
Local Area Connection (17: XPort XPort			172.16.100.2	00-20-4A-86-3E-D7	Online
🍯 Ready					:

Step 4 Click on the (+) mark to expand the parameters and select the IP address that you would like to change as shown in the diagram below. The factory default number is 172.16.100.2.

- PLantronix DeviceInstaller 4.1	.0.3		
<u>File E</u> dit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp			
Search Assign IP Upgrade			
🖃 💭 Lantre Assign an IP address to a	device. Details Web Configuratio	n Telnet Configuration	
E Local Area Connection (177			
😑 🛱 XPort	<b>N</b>		
APort-03 - firmware	Property	Value	~
172.16.100.2	Name		
	Group		=
	Comments		- 1
	Device Family	XPort	
	Туре	XPort-03	
	ID	×5	
	Hardware Address	00-20-4A-86-3E-D7	
	Firmware Version	6.10	
	Extended Firmware Version	6.1.0.0	
	Online Status	Online	
	Telnet Enabled	True	~
	Lation	0000	
🍠 Ready			

Step 5 Confirm that the IP address is selected. Click the Assign IP button. If the following setting is made without selecting the IP address, the internal setting may be changed and a communication error may occur.

Section 2.1 Section 2.1	1.0.3		
File Edit - Yiew Device Tools Help			
Search Assign IP Upgrade			
E Lantre Assign an IP address to a	device. Details Web Configura	ion Telnet Configuration	
E gg LocarArea Connection (177			
🖻 🚞 XPort	1		
E SPort-03 - firmware	Propertu	Value	~
172.16.100.2	Name	1000	
	Group		=
	Comments		
	Device Family	XPort	
	Туре	XPort-03	
	ID	×5	
	Hardware Address	00-20-4A-86-3E-D7	
	Firmware Version	6.10	
	Extended Firmware Version	6.1.0.0	
	Online Status	Online	
< >	I einet Enabled	1 rue	~
🧭 Ready	0-		

Step 6 Check the "Assign a specific IP address" option and click "Next".

🛇 Assign IP Address	
	Assignment Method
	Would you like to specify the IP address or should the unit get its settings from a server out on the network?
14 00 J	Obtain an IP address automatically
	Assign a specific IP address
	TCP/IP Tutorial
Ý	
	< Back Next > Cancel Help

Step 7 Enter the IP address, subnet mask, default gateway and click "Next".

It may take a while to proceed to the next screen.

🛇 Assign IP Address				×	
	IP Settings				
	Please fill in the IP address, subnet, and gateway to assign the device. The subnet will be filled in automatically as you type, but please verify it for accuracy. Incorrect values in any of the below fields can make it impossible for your device to communicate, and can cause network disruption.				
	IP address:	172.16.100.3			
	Subnet mask:	255.255.0.0			
	Default gateway	0.0.0.0			
	< E	Back Next >	Cancel Help		

Step 8 Click the "Assign" button.

It may take a while to complete the setting.

🛇 Assign IP Address		
	Assignment Click the Assign button to complete the IP address assignment. Assign	
	< Back Finish Cancel Hel	lp

## Step 9 Click "Finish".

🔌 Assign IP Address	
S ASSIGN IP AUDIESS	Assignment Click the Assign button to complete the IP address assignment.
, 	Finish Help

Step 10 Quit after verifying that the IP address has been changed.

👺 Lantronix DeviceInstaller 4.1	.0.3		
<u>File E</u> dit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp	)		
Search Assign IP Upgrade			
🖃 👼 Lantronix Devices - 1 device(s)	Device Details Web Configuration	on Telnet Configuration	
Encal Area Connection (17; Encal Area Connection (17; Encal Area Connection (17;	2		
APort-U3 - firmware 172 16 100 3	Property	Value	<u>^</u>
112.10.100.3	Name		
	Group		=
	Lomments	VD-1	
	Device Family	XPort VB-++ 02	
		XF00-03	
	Hardware Address	00-20-44-86-3E-D7	
	Firmware Version	6.10	
	Extended Firmware Version	6.1.0.0	
	Online Status	Online	
	Telnet Enabled	True	~
Device at 172.16.100.3 was found!			.::

Step 11 Write down the set IP address on the IP address label and attach.

- 5. Using Data Acquisition Software RsMulti
- 5-1. Features of RsMulti

This software enables data acquisition from A&D's electronic balances or platform scales equipped with RS232C, or weighing instruments available for a LAN, by connecting to a computer.

-Enables data acquisition from multiple weighing instruments with a single computer.

-LAN connection and RS232C port connection can be used simultaneously.

(e.g. It is possible to connect three weighing instruments through LAN and two others through RS232C simultaneously.)

- -Weighing instruments can be controlled by sending commands from the computer.
- -The software can collect data by pressing the [PRINT] key on the weighing instrument.
- -Recorded data can be opened easily in an Excel file. (Not applicable with Windows Vista)

(Microsoft Excel should be installed in advance.)

## 5-2. Setting RsMulti

Start from the Start menu on the computer. Click Start, Program, A&D WinCT-Plus, RsMulti to start.

To open the Config window, select Open from the Config menu in the RsMulti window.

📩 RsMulti Ver.1.03P	
File(E) Config(G) Copy(O) Excel(E)	New.csv 05/05/10 10:46:24
A&D Company,Limiled	÷
Manual/Repeat sec	
Command Data	
Test Start Command.	
Connect Name ⊡Example	

The connection settings can be added and changed in the Config window.

÷	• Config								×
	CH Connect Name	Address	Sett	ing	Ser	nd Data	Separ	ator	I.
	1 Example	172.16.100.2	Port No.	10001	Q	CR/LF	Unit	Comma	
ļ									
	Add Delete	Property	Up	I	)own		OK		

To make a new addition, click "Add". To change, click "Property".

For details, refer to the explanations about the Config and Property windows.

In the default setting, "Example" is registered at CH1 and the IP address and the Port number are set at the same as the default of OP-08.

Select "Example" and click the "Property" button.

The Property window opens.

e Property		
Connect Name 1GH-252	5 Send Data Command D Terminator CR/LF	Separator
LAN/COM 2° LAN IP Address 3 172.16.100.2 Port No. 4 10001	C COM Port:COM 1 Y Baud Rate 2400 Y Parity E Y Length 7 Y Stop Bit 1 Y	Comma Space Tab Setl ; Set2 ; Data Format Date Time
7 OK Canncel GH-252 10:54:42 ST +046.407 8	6 <sup>Test</sup>	Interval 0 sec

Follow the steps below to set up:

①Provide a name for the connection, e.g. GH-252 (the name of the weighing instrument).

(2) Check the LAN option to select LAN connection.

③Enter the IP address of the OP-08.

(4) Enter the port number of the OP-08. In the default setting, it is set at 10001.

(5)Fill in the "Send Data Command" and "Terminator" boxes to send to the weighing instrument.

-For collecting data by sending a send data command to the weighing instrument.

Enter the "Send Data Command" box.

-For collecting data by pressing the [PRINT] key on the weighing instrument.

(When the weighing instrument is used in Key mode, Auto print mode and Stream mode.)

Blank out the "Command" box and enter the "Terminator" box only.

<sup>(6)</sup>Click the "Test" button to check that the communication is made.

If the "Command" box is filled in the step 5 above, a reply to the command will be displayed.

If it is blank, send data by pressing the [PRINT] key on the weighing instrument to check the display.

If the data is displayed as shown in (8) above, the communication is normally made.

If no data is displayed, check the settings again.

⑦Click the OK button to complete the setting.

As shown below, GH-252 is registered in the Config window.

÷	e Con	nfig											×
	СН	Connect	Name	Addre	ess		Setti	ng	Ser	nd Data	Separ	ator	Ĩ.
	1	GH-252		172.16.	100.2	Port	No.	10001	Q	CR/LF	Unit	Comma	
ļ													
	A	Add	Delete	Prop	erty		Up	I	)own		0K		

For connection of multiple instruments, click the "Add" button to add the connections and set in the same way for all the instruments.

Now, setup is completed. Press the OK button to save the setting.

- 5-3. Data acquisition with RsMulti
- Step 1 Preparations for communication

From the Connect Name list in the RsMulti window, select the name of the instrument to be connected and then click the "Test" button to check the connection.

ere RsMulti Ver.1.03P		- D ×
File( <u>F</u> ) Config( <u>G</u> ) Copy( <u>C</u> ) Excel( <u>E</u> )		
AND	New.csv 2005/05/16 19:35:07	
A&D Company,Limiled		<u>_</u>
Manual/Repeat		
Command Data		
■ A11 ▼		
Test Start Command		
Connect Name		
Ø9H-300		
J		<u> </u>

🛄 Test				
GH-252	0	0.0000	g	
GH-300	0	0.0000	g	

-Sending a send data command to the weighing instrument for data acquisition. Click the "Test" button to send the command set in the <Property> window. If a response to the command is displayed, communication is normally made.

-Sending data from the weighing instrument by pressing the [PRINT] key on the weighing instrument.

(When used in Key mode, Auto print mode and Stream mode.) Press the [PRINT] key on the weighing instrument to send data. If data is displayed, communication is normally made.

- Step 2 Starting communication Click the "Start" button to communicate.
- Step 3 Data acquisition

When pressing the [PRINT] key on the weighing instrument, the data of the instrument will be sent to the computer and displayed in each cell.

To send a command to the weighing instrument, click the "Command" button. The set command will be sent to the weighing instrument.

(If "Repeat" is selected in the "Manual/Repeat" option, the command will be automatically sent in every setup time.)

\*Note: As a standard, the total data should not exceed 10,000.

RsMulti Ver.1.03P							
File( <u>F)</u> Config( <u>G</u> ) Copy( <u>C</u> ) Excel( <u>E</u> )							
	Sample.csv 05/04/12 11:23:16						
ASD Compared insided	GH-252 GH-300						
A&D Company,Limilea	1 11:19:43 ST +018.2252 g 11:20:02 ST +019.2181	g					
Manual/Repeat	2 11:19:49 ST +018.2253 g 11:20:05 ST +019.2182	g					
🗌 Repeat 5 sec	3 11:21:07 ST +018.2955 g 11:20:12 ST +019.2182	g					
Command Data	4 11:21:12 ST +018.2964 g 11:20:39 ST +019.2898	g					
T A11	5 11:21:17 ST +018.2965 g 11:20:47 ST +019.2182	g					
	6 11:21:33 ST +018.6676 g 11:23:02 ST +019.2184	g					
Monitor Stop Command	7 11:21:41 ST +018.2251 g 11:23:09 ST +019.2180	g					
Connect Neme	8 11:21:51 ST +018.2251 g 11:23:16 ST +019.2180	g					
	9 11:22:00 ST +018.2965 g						
<b>R</b> GH-300	10 11:22:30 ST +018.2265 g						
	11 11:22:33 ST +018.2252 g						
	12 11:22:40 ST +018.2239 g						
	13 11:22:53 ST +018.2251 g						
		_					
,	,						

- Step 4 Quitting communication Click the "Stop" button.
- Step 5 Pasting data into an Excel file (Not applicable with Windows Vista) Click Open from the Excel menu to start Excel application automatically and then paste the data recorded in the cells into an Excel worksheet. (Excel application should be preinstalled.)

👍 RsMu	lti Ver.1.03P				
File( <u>F</u> )	Config( <u>G</u> )	Copy( <u>C</u> )	Excel( <u>E</u> )		
	2.5		Open		
A8	D Com	pa <mark>ny.Lim</mark> i	iled	-	GH-252
					11:19:43
Manu	al/Repea	at		2	11:19:49
Re Re	peat	5	sec	3	11:21:07
					11.21.12

X	licrosoft Ex	cel - Sampl	e.csv							×
1	<u>File E</u> dit <u>V</u>	jew <u>I</u> nsert	Format Too	ils <u>D</u> ata <u>W</u> ir	ndow <u>H</u> elp				_ 8	×
Űр	🚅 🔲 d	S 🖪 🖤	X 🗈 F	. 🛷 🗠 -	- cu - 🛛 🙆	ν 🐨 Σ	f <sub>∗</sub> ≜l Zl	🕼 🥥 🔏	3	>>
		⇒ Ls. ▼		=   <u></u>		⋑ ♀     − ⊐	*** AV		×   ~ · ·	>>
Ari	al	• 1	O A R	┚ <u></u> <u></u> 」	흔 큰 변	9 8 %	• .00 <b>•</b> .0		• 🙅 • 🚣	•
	A1	<b>•</b>	=							
	A	В	С	D	E	F	G	Н		
1		GH-252				GH-300				
2	1	11:19:43	ST	182.252	g	11:20:02	ST	192.181	g	
3	2	11:19:49	ST	182.253	g	11:20:05	ST	192.182	g	
4	3	11:21:07	ST	182.955	g	11:20:12	ST	192.182	g	
5	4	11:21:12	ST	182.964	g	11:20:39	ST	192.898	g	
6	5	11:21:17	ST	182.965	g	11:20:47	ST	192.182	g	
7	6	11:21:33	ST	186.676	g	11:23:02	ST	192.184	g	
8	7	11:21:41	ST	182.251	g	11:23:09	ST	192.180	g	
9	8	11:21:51	ST	182.251	g	11:23:16	ST	192.180	g	
10	9	11:22:00	ST	182.965	q					
11	10	11:22:30	ST	182.265	q					
12	11	11:22:33	ST	182.252	a					
13	12	11:22:40	ST	182.239	a					
14	13	11:22:53	ST	182.251	a					
15										
	▶ ► \San	nple /								11
Rea	idy							NUM		

#### 5-4. Explanations about each function of the RsMulti

(1) The RsMulti window

💑 RsMulti Ver.1.03P								
File( <u>F</u> ) Config( <u>G</u> ) Copy( <u>C</u> ) Excel( <u>E</u> )								
	New.csv (2) 05/04/12 11:23:16							
49.D Compared insite of	GH-252 GH-300							
A&D Company,Limiled	1 11:19:43 ST +018.2252 g 11:20:02 ST +019.2181	g						
Manual/Repeat	2 11:19:49 ST +018.2253 g 11:20:05 ST +019.2182	g						
🗖 Repeat 🛛 5 sec	3 11:21:07 ST +018.2955 g 11:20:12 ST +019.2182	g						
-Command Data	4 11:21:12 ST +018.2964 g 11:20:39 ST +019.2898	g						
	5 11:21:17 ST +018.2965 g 11:20:47 ST +019.2182	g						
	6 11:21:33 ST +018.6676 g 11:23:02 ST +019.2184	g						
Test Start Command	7 11:21:41 ST +018.2251 g 11:23:09 ST +019.2180	g						
Connect Neve	8 11:21:51 ST +018.2251 g 11:23:16 ST +019.2180	g						
	9 11:22:00 ST +018.2965 g							
I GH-300	10 11:22:30 ST +018.2265 g (1)							
	11 11:22:33 ST +018.2252 g							
	12 11:22:40 ST +018.2239 g							
	13 11:22:53 ST +018.2251 g							

#### Table ①

Records received data.

To change the title, double-click the title of the table (New.csv 2).

#### Connection Name (3)

List of setup connection names. Connects to a selected instrument.

#### Test / Monitor button

The connection can be checked in the "Test" display.

-Sending a send data command to the weighing instrument for data acquisition.

Press the [Test] button to send the command set in the <Property> window.

If a response to the command is displayed, communication is normally made.

-Sending data from the weighing instrument by pressing the [PRINT] key on the weighing instrument.

(When used in the Key mode, Auto print mode and Stream mode.)

Blank out the command box and press the [Test] button in the <Property> window.

Press the [PRINT] key on the weighing instrument to send data.

If data is displayed, communication is normally made.

#### Start / Stop button

In the Start display, communication can be started by clicking this button. In the Stop display, communication can be stopped by clicking this button.

#### **Command button**

To send a setup command, click this button.

#### Manual / Repeat

Manual or automatic command transmission can be selected.

-When "Repeat" is selected, a command will be sent automatically in every setup time. The time can be set to the second.

-When "Repeat" is not selected, a command is to be sent manually (by clicking the Command button).

#### Table

Records received data.

To change the title, double-click the title of the table (New.csv).

#### **Connect Name**

List of setup connection names. Connects to a selected instrument.

#### Test / Monitor button

The connection can be checked in the "Test" display.

-If there is a send data command function on the weighing instrument:

When the "Test" button is clicked, the command set in the <Property> window will be sent.

If a reply to the command is displayed, the communication is normally made.

-If there is no send data command function on the weighing instrument:
Blank out the "Command" box in the <Property> window and click the "Test" button.
Press the [PRINT] key, etc. on the weighing instrument to transmit data.
If the data is displayed, the communication is normally made.
Once started, it changes to the Monitor display to display received data.

#### Start / Stop button

In the Start display, communication can be started by clicking this button. In the Stop display, communication can be stopped by clicking this button.

#### **Command button**

To send a setup command, click this button.

#### Manual / Repeat

Manual and automatic command transmissions can be selected.

- -When "Repeat" is selected, a command will be sent automatically in every setup time.
- The time can be set to the second.
- -When "Repeat" is not selected, a command has to be sent manually (by clicking the "Command" button).

## **Command Data**

This function sends the same command to all the connected instruments.

-When "All" is selected, the setup command will be sent to all the connected instruments.

The terminator set for each connection in the <Property> window will be sent.

-When none is selected, the command set for each connection in the <Property> window will be sent.

(Open the <Property> window from the <Config> window. The details will be described later.)

#### Menu

[File]		e RsMulti Ver.1.03P
[New]	Clears collected data.	File( <u>F</u> ) Config( <u>G</u> ) Copy( <u>C</u> ) Excel( <u>E</u> )
[Open]	Opens saved file.	New( <u>N</u> )
[Save Data]	Saves collected data.	Save Data(S)
[Save Config]	Saves communication settings.	Save Config(©) p <b>ny,Limiled</b>
[End]	Quits the program.	End⊗
		Reneat 5 sec
[Config]		
[Open]	Opens the Config window. Displays	the list of connection settings.
[Copy]		
[All area]	Copies the whole table into the clipb	ooard.
[Select area]	Copies a selected area into the clipb	oard.
	The copied data can be pasted into t	he other application form.
[Excel]		
[Open]	Starts Excel automatically and paster	s the recorded data into a worksheet.

#### (2) Config window

To open, click "Open" from the Config menu in the RsMulti window. Displays the list of the connection settings.

÷	e Con	fig								_0	×
	CH	Connect	Name	Address	S	etti	ng	Ser	id Data	Separator	[
	1	GH-252		172.16.100.2	Port N	٧o.	10001	Q	CR/LF	Comma	
	2	GH-300		172.16.100.3	Port N	٧o.	10001	Q	CR/LF	Comma	
	Å	.dd	Delete	Property	Uj	p		)own		OK	

#### Table

Displays the list of set connection list.

To make settings, double-click the connection name.

## Add button

Adds settings for a newly connected instrument.

## Delete button

Deletes selected connection settings.

## **Property button**

Displays the <Property> window of the selected connection settings. The connection settings can be changed. When a connection name of the table is clicked and highlighted, by clicking the "Property" button, the <Property> window is displayed. For details, refer to the explanation about the <Property> window.

#### UP button

Shifts the selection of connection setting upward.

#### **DOWN** button

Shifts the selection of connection setting downward.

#### **OK** button

Closes the Config window.

## (3) Property window

When Connection Name is selected (highlighted), click the "Property" button to display the Config window.

It can be opened from the RsMulti window by right-clicking the connection name in the "Connect Name" box and clicking "Property".

\* mark represents the default setting.

e e Property		
Connect Name GH-252	Send Data Command Q Terminator CR/LF V	Decimal Point ••••••••••••••••••••••••••••••••••••
LAN/COM © LAN IP Address		Vnit ▼ Comma ▼ Space
172.16.100.2	Baud Rate 2400	Tab
10001	Parity E 🔽 Length 7 🔽	Data Format
	Stop Bit 1	₩ Time
		terval  0 sec
		_

#### **Connect Name**

A name can be provided for the setting. In the default setting, a channel number is registered. (e.g. "CH2")

e.g. The name "CH2" can be changed to "GH-252", etc.

#### Send Data

Command: Sets a command to send. (\*Q) Terminator: Sets the terminator. (\*CR/LF, CR)

## LAN / COM option button

## -LAN

For LAN connection, select this option. Enter the IP address and port number of the OP-08. IP Address: IP address Port Number: Port number (\*10001) Provide 1000 or higher for the normal port number.

#### -COM

For COM connection, select this option button. Setup the RS232C communication settings.

Port:Com: Com port (\*1 to 32) Baud Rate: Baud rate (600, 1200, \*2400, 4800, 9600, 14400, 19200, 28800) Parity: Parity (\*E: even number, O: odd number, N: None) Length: Data length (\*7, 8) Stop Bit: Stop bit (\*1, 1.5, 2)

#### **Decimal Point**

Sets the decimal point- \*dot (.), comma (,)

#### Separator

Sets the pause to be inserted at the end of data entered in the table. The data will be separated using the selected character. When "Unit" is selected, data will be separated when a character is received after a number. You can set a character in the Set1 or Set2. \*Unit, \*Comma, Space, Tab, Set1, Set2

#### Data Format

Sets data to store other than received data. Data, \*Time

#### Interval

Collects data received only in every setup time into the computer.

This button is used when data processing speed of the computer is slow, or the data is entered periodically.

The time can be set to the second. The default setting is 0 sec.

When it is set at 0 sec, all the data will be sent to the application.

#### Test button

Sends the set command. If the data from the weighing instrument is displayed, the communication is normally made.

The example of the pause by Separator will be displayed.

## **OK** button

Saves the changed settings.

#### Cancel

Quits without changing the settings.

### 6. License Agreement

- -It is prohibited to reproduce "WinCT-Plus" without our prior written consent.
- -Specifications of "WinCT-Plus" are subject to change without notice.
- -The copyright of "WinCT-Plus" is owned by A&D Company, Limited.
- -"WinCT-Plus" is to be used for data transmission between A&D's weighing instruments and a computer.
- -"WinCT-Plus" can only be installed and used on the hard disks or other storage device of the computer to be connected to the weighing instrument.
- A&D Company, Limited assumes no liability at all for any direct or indirect and particular or inevitable damages due to defects of "WinCT-Plus" even though possibility of occurrence of such damages has been notified. Further, A&D assumes no liability for claims of rights from third parties. At the same time A&D assumes no liability at all for any software or data losses.

Microsoft, Windows and Excel are registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.

## 7. Supplementary

7-1. Using as a virtual COM port

With attached software "ComPort Redirector", the OP-08 connected to a LAN can be used as a COM port (virtual COM port).

With the virtual COM port, serial communication software can be used directly.

Step 1. Installing "ComPort Redirector"

Execute "red32bit.exe" from \English\Setup Tools\redirector, CD-ROM. Follow the instructions to install.

## Step 2. Setting "ComPort Redirector"

(1) Start from the Start menu on the computer.

Click "Start", "P	rogram", "Lantronix Redirector", '	"Configration" to start.
🔁 RDOfg		
	Port Configuration	
Advanced	Redirect COM2 To:	Move Up
C <u>o</u> m Setup		Move Do <u>w</u> n
☐ <u>S</u> ilent Mode		
	Port Settings	Add IP Remove
Status: Not Lo	aded	
Disca	nnect <u>H</u> elp <u>S</u> ave	

#### (2) Click the [Com Setup] button.

Check the number to use as a virtual COM port and click the OK button.

<sub> Port</sub> Setup			
Redirected Port	ts		
Com1 Com2 Com2 Com3 Com4 Com5 Com6 Com7 Com8 Com9 Com10 <	Com11 Com12 Com12 Com13 Com14 Com14 Com15 Com16 Com17 Com17 Com18 Com19	Com21 Com22 Com23 Com24 Com24 Com25 Com25 Com26 Com27 Com28 Com29 Com29 Com30	OK Cancel

(3) Click the [Add IP] button.

Enter the IP address and Port number of the OP-08 and click the OK button. In the default setting of OP-08, IP address is set at 172.16.100.2 and Port number at 10001.

IP Service Setup	1
Host: 172.16.100.2 TCPPort: 10001	
OK Cancel <u>H</u> elp	

(4) Click the [Port Settings] button.

🔁 RDCfg		×
Advanced Com Setup Silent Mode	Port Configuration Redirect COM2 To: Move Up [IP] 172.16.100.2:10001 Move Down Add IPX	
	Port Settings Add IP <u>R</u> emove	
Status: Not Lo	paded	
<u>D</u> isc	onnect <u>H</u> elp <u>S</u> ave <u>C</u> lose	

(5) Check in the [Raw Mode] box and click the OK button.

Ρ	ort Settings	×	
	Timeout Reconnect	Force v2 Protocc	
	Server Reconnec	☐ No Net Close	
	🥅 Inband Listen	Raw Mode	
	7 🛓 Connection Timeo	ut	
	OK Cance	el <u>H</u> elp	

(6) Click the [Save] button to save and then click the [Close] button to finish.

😔 RDCfg		×
Advanced Com Setup Silent Mode	Port Configuration Redirect COM2 To: Move Up [IP] 172.16.100.2:10001 Move Down Add IPX Port Settings	
Status: Not Lo <u>D</u> isco	paded	

(7) Now, communication with the OP-08 can be enabled by opening the virtual COM port with serial communication software.

In this setting example, the OP-08 assigned IP address 172.16.100.2 can be used as COM2.

#### 7-2. Using a DHCP

If a DHCP server is available for the network to which the OP-08 is connected, follow the procedures described below to change the setting.

- \*Attention!: When a DHCP is used, IP address to be set will be changed on each connection. If data acquisition software "RsMulti" is to be used, it is desirable to set individual IP addresses and not to use a DHCP.
- Step 1. Start "DeviceInstaller" from the Start menu on the computer. Click "Start", "Program", "Lantronix", "DeviceInstaller" to start.
- Step 2. Click the Search button to perform automatic detection of the OP-08 connected to the network.



Step 3. Select the instrument to change the setting, click the "Assign IP" button.

DeviceInstaller 4.1	1.0.3		
<u>File E</u> dit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp	)		
Search Assign IP Upgrade			
🖃 💭 Lantro	device. Details Web Configura	tion Telnet Configuration	
E gg Local Area Connection (177			
🖻 🚞 XPort	10 C		
😑 🦇 XPort-03 - firmware	Property	Value	~
	Name	Y dide	
	Group		
	Comments		=
	Device Familu	XPort	
	Tupe	XPort-03	
	I ID	X5	
	Hardware Address	00-20-46-86-3E-D7	
	Firmware Version	610	
	Extended Eirmware Version	6100	
	Online Status	Online	
	Telnet Enabled	True	
<	TIDD	0000	×
<i>i</i> Ready			

Step 4. Check the "Obtain an IP address automatically" "Assign IP" buttons.

🔌 Assign IP Address		×
	Assignment Method Would you like to specify the IP address or should the unit get its settings from a server out on the network? Obtain an IP address automatically Assign a specific IP address TCP/IP Tutorial	
	< Back Next > Cancel Help	

Step 5. Check the DHCP box and then click the Next button.

🔌 Assign IP Address		×
	IP Discovery Settings	
	What protocols should the device use to discover its IP address from the network?	
100000	✓ DHCP	
Min La Contra	BOOTP	
Change and the	RARP	
	🗸 Auto-IP 🛛 🔽 Clear Gateway	
	It is recommended that the "Auto-IP" Check Box be checked if the "DHCP" Check Box is checked.	
	It is also recommended that the "Clear Gateway" Check Box be checked if the "Auto-IP" Check Box is checked.	
	If DHCP fails or is not enabled, the device needs to revert to Auto- IP. If Auto-IP is not set, then DeviceInstaller will not be able to detect the device. Also, if Auto-IP is set and the gateway is set, DeviceInstaller will not be able to detect the device.	
ļ.		
	<pre>&lt; Back Next &gt; Cancel Help</pre>	

Step 6 Click the Assign button.

Click the Assign button to complete the IP address assignment. Assign	

Step 7. Click the Finish button.

🥸 Assign IP Address	X
	Assignment
	The Device was set to obtain an IP address automatically. This may take some time. The Status of the device may be busy or unreachable until the background task finds the device. Progress of task:
	Finish Help

Step 8. Click the Search button to display the IP address assigned by the DHCP.

👺 Lantronix DeviceInstaller 4.1	1.0.3		
<u>File E</u> dit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> el;	)		
Search Assign IP Upgrade			
🖃 鶰 Lantronix Devices - 1 device(s)	Device Details Web Configura	tion Telnet Configuration	
ia - ∰ Local Area Connection (17: ia - — XPort	2		
APort-U3 - firmware	Property	Value	~
······ 💒 172.16.100.7	Name		
	Group		=
	Comments		
	Device Family	XPort	
	Туре	XPort-03	
	ID	X5	
	Hardware Address	00-20-4A-86-3E-D7	
	Firmware Version	6.10	
	Extended Firmware Version	6.1.0.0	
	Online Status	Online	
	Telnet Enabled	True	~
	LTING	0000	
🥔 Ready			

8. Verify these items if communication problems occur

In the event that the communication fails even though you conducted your set up following the instructions in this manual, please verify each setting in the order listed below.

- Step 1 Connect the computer and the weighing instrument with the OP-08 to the same network. If multiple instruments are connected, connect one by one.
- Step 2 Begin at the Start menu on the computer. Click "Start", "Program", "Lantronix", and "DeviceInstaller" to start.
- Step 3 Click "Search" to perform automatic detection of the OP-08 connected to the network.
- Step 4 Select the instrument of which communication settings need to be checked, and then click the Web Configuration tab.

Lantronix DeviceInstaller 4.1	.0.3		
<u>File E</u> dit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp	)		
Search Assign IP Upgrade			
🖃 🚘 Lantronix Devices - 1 device(s)	Device Details Web Configurat	ion Telnet Configuration	
E Cocal Area Connection (172	2		
XPort-U3 - himware	Property	Value	~
······ <u>3</u> 172.16.100.2	Name		
	Group		_
	Comments		=
	Device Family	XPort	
	Туре	XPort-03	
	ID	X5	
	Hardware Address	00-20-4A-8C-32-AD	
	Firmware Version	6.10	
	Extended Firmware Version	6.1.0.0	
	Online Status	Online	
	Telnet Enabled	True	~
	Lations	0000	
<i>త</i> Device at 172.16.100.2 was found!			

Step 5 Click the Go button. It may take some time to proceed to the next screen.

👺 Lantronix DeviceInstaller 4.1.0.3	
Eile Edit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp	
Search Assign IP Upgrade	
Exantronix Devices - 1 device(s) Device Details Web Configuration Telnet Configuration	
Big Local Area Lonnection [17.]         □         →         ×Port         □         ✓         Address         http://172.16.100.2:80         □         E>           □         →         ×Port         □         ✓         N         Address         http://172.16.100.2:80         □         E>	ternal Browser
2 172.16.100.2	
Navigate to http://172.16.100.2.80	
Image: Second	

Step 6 A window requiring a password appears but nothing needs to be input here, just click the

OK button.

Connect to 17	2.16.100.2	? 🛛
		ART
Welcome to 172	16.100.2	
<u>U</u> ser name:	<b>2</b>	*
Password:		
	Remember my pass	word
	ОК	Cancel

Step 7 When the screen as shown below appears, click "Serial Settings".



Step 8 The current settings for serial communication will be displayed. Confirm that the settings correspond with those shown in the table below . If your settings are different, change the settings as specified in the table and then perform steps 9 and 10.

If the settings are correct, proceed to Step 11.

Baud Rate	2400
Data Bits	7
Parity	Even
Stop Bit	1



Step 9 Scroll down to the bottom of the screen and click the OK button.



Step 10 Click "Apply Settings" to apply the settings change. Please wait for completion.

- Lantronix DeviceInstaller 4.1	1.0.3		X
<u>File E</u> dit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp	)		-
Search Assign IP Upgrade			
🖃 🚂 Lantronix Devices - 1 device(s)	Device Details Web Config	guration Telnet Configuration	
Eccal Area Connection [17, Contemporation ] APort Contemporation ] APort-03 - firmware	Address 🖿	http://172.16.100.2:80 💿 📚 🔤 External Browser 🗽	1L:
- 🗶 172.16.100.2	LANTRO	Firmware Version: V6.1.0.0 MAC Address: 00-20-4A-86-3E-D7	
	企 Network		
	Server	Please wait while the configuration is saved	
	Serial Tunnel	The unit will reboot in order for the settings to be applied.	
	Hostlist Channel 1		
	Serial Settings Connection		
	Email		
	Trigger 1		
	Trigger 2 Trigger 3		
	Configurable Pins		
	Apply Settings		
	Apply Factory Defaults	< []	>
<	Done		
Device at 172.16.100.2 was found!			

Step 11 Click "Connection" on the screen below.



Step 12 The screen below will be displayed. Confirm that the "Local Port" is "10001." If the setting is different, change the setting to "10001" and then perform steps 13 and 14.

👺 Lantronix DeviceInstaller 4.1	.0.3		
<u> Eile E</u> dit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp	)		
Search Assign IP Upgrade			
🖃 🚂 Lantronix Devices - 1 device(s)	Device Details Web Config	uration Telnet Configuration	
Local Area Connection (172     Area Connection (172     XPort     XPort-03 - firmware     XPort-03 - firmware	Address h	ttp://172.16.100.2:80 60	External Browser
·	LANTRO	DNI <mark>X</mark> °	Firmware Version: V6.1.0.0 MAC Address: 00.20.44.8C.32.4D
		Required: - 100 - 100	wij (iii i 🗸
	າມາ Network	Password:	Modern Mode: None
	Server Serial Tunnel	1	Mdm Esc Seq
	Hostlist Channel 1 Serial Settings	Endpoint Configuration:	
	Connection	Local Port: 10001	Auto increment for active connect
	Email Trigger 1	Remote Port: 0	Remote Host: 0.0.0.0
	Trigger 2 Triager 3	Common Ontions:	
	Configurable Pins	Telnet Mode: Dicable 🔻	Connect Response: None
	Apply Settings		
	Apply Factory Defaults	<pre>rerminal Name:   </pre>	Use Hostilist: C Yes 🖲 No 🗡
< >	Done		
Device at 172.16.100.2 was found!			.:

Step 13 Scroll down to the bottom of the screen and click the OK button.

🛿 Lantronix DeviceInstaller 4.1.0.3
jle <u>Edit V</u> iew <u>D</u> evice <u>I</u> ools <u>H</u> elp
Search Assign IP Upgrade
🖃 🚆 Lantronix Devices - 1 device(s) 🛛 Device Details 🛛 Web Configuration Telnet Configuration
See Local Area Connection (172     Address http://172.16.100.2:80     See See See See See See See See See
Firmware Version: V6.1.0.0 MAC Address: 00-20-4A-8C-32-AD
🖆 Terminal Name: Use Hostlist: C Yes @ No 🔺
Network
Server Disconnect Mode
Hostiist On Mdm_Ctrl_In Drop: C Yes © No Hard Disconnect: © Yes C No
Serial Settings Check EOT(Ctrl-D): C Yes O No Inactivity Timeout: 0 ; 0
Email
Trigger 1 Trigger 2
Trigger 3
Configurable Pins OK Done!
Apply Settings
Apply Factory Defaults
C Done
Device at 172.16.100.2 was found

Step 14 Click "Apply Settings" to apply the settings change. Please wait for completion.



Step 15 Quit the DeviceInstaller.