# WinCT-Plus Instruction Manual (for the AD8526)

Please see the separate document "Manual(for the OP-08)" if the optional OP-08 Ethernet Interface for A&D's Balance 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 AD8526	7
5. Using data collection software RsMulti	
5-1. Features of RsMulti	
5-2. Setting RsMulti	13
5-3. Data acquisition with RsMulti	15
5-4. Explanations about each function of RsMulti	18
6. License Agreement	24
7. Supplementary	25
7-1. Using as a virtual COM port	25
7-2. Using a DHCP	28
7-3. Changing the serial communication setting	31
8. Verify these items when if communication problems occur	36

# 1. Introduction

This manual describes the operation to acquire data from a balance via an AD8526 Ethernet converter by using data acquisition software "WinCT-Plus".

Features of WinCT-Plus

-Enables data acquisition from multiple weighing instruments through Ethernet(LAN) 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 OP-08)" if the optional OP-08 Ethernet Interface for A&D's Balance is used.

# 1) Necessary systems

(1)Computer	OS	Microsoft Windows 2000 onwards
OComputer	05	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	
②AD8526		
$\bigcirc \alpha + 1 + 11$		

(3)Serial cable

(4)A&D make weighing instrument

⑤Ethernet hub\*

(6)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

Setup Tools - DeviceInstaller ----- Software for various setting of AD8526 - Microsoft .NET Frameworks Version1.1 redirector ----- Software for establishing a Virtual COM port (See chapter 7-1) WinCT-Plus ----- Data acquisition software Manual (for the AD8526).PDF Manual (for the OP-08).PDF ·Readme.txt

#### 2. Specifications

AD8526 specifications



#### (1) LAN interface

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".

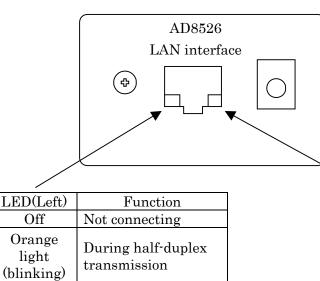
#### Factory setting

Green

light

(blinking)

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



During full-duplex

transmission

Pin	Signal
number	name
1	TX+
2	TX-
3	RX+
4	-
5	-
6	RX-
7	-
8	-

``	
LED(Right)	Function
Off	Not connecting
Orange light	Connecting through 10Base-T
Green light	Connecting through 100Base-TX

#### (2) Serial interface (RS-232C)

AD8526

Transmission form	Asynchronous, bi-directional
Connector	D-sub 9 pin male
Baud rate	600,1200,2400*,4800,9600,19200 bps
Devites	Even* , Odd (Data bits 7bits)
Parity	None (Data bits 8bits)
Flow control	None

Serial int	cerface
	$9876$ $\bigcirc \bigcirc \circ \circ$
	54321

\*Factory settings

Pin	Signal	Direction
number	name	Difection
1	-	-
2	RXD	Input
3	TXD	Output
4	-	-
5	SG	-
6	-	-
7	Apporx.5V	Output
8	-	-
9	-	-

- :None Connection

#### **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 AD8526

"DeviceInstaller" is software to set IP address, etc. of AD8526.

For use of "DeviceInstaller", "Microsoft .Net Framework Ver1.1" 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.

Step 1 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.

Step 2 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 AD8526.
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 AD8526. Please consult with the network administrator before assigning IP addresses, etc.

AD8526 Factory setting

IP address	172.16.100.2
Subnet mask	255.255.0.0

# Attention

-Do not connect the AD8526 to a backbone network.

If any failure in network should occur due to the AD8526, A&D Co., Ltd. will not assume any responsibility.

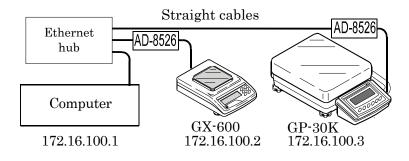
-Before connecting to an existing network, consult with the network administrator.

# Setting example

# Example 1) Connecting two balances via Ethernet hub

For LAN cabling, straight cables should be used.

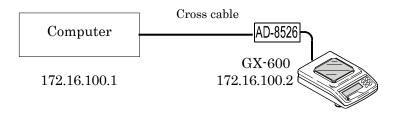
	IP address	Subnet mask
Computer	172.16.100.1	
GX-600	172.16.100.2	255.255.0.0
GP-30K	172.16.100.3	



Example 2) Connecting a computer directly to a single balance

For	LAN	cabling,	ernee	cables	should	housed	1
<b>FO</b>	LEAIN	cabining,	cross	cables	snoulu	be used	ι.

	IP address	Subnet mask
Computer	172.16.100.1	255.255.0.0
GX-600	172.16.100.2	200.200.0.0



#### 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 autor this capability. Otherwise, you need to a the appropriate IP settings.	
O Dbtain an IP address automaticall	y IIII
• Use the following IP address:	
IP address:	172.16.100.1
S <u>u</u> bnet mask:	255.255.0.0
Default gateway:	· · ·
O Dbtain DNS server address autom	· · · · · · · · · · · · · · · · · · ·
Use the following DNS server add	
Preferred DNS server:	
<u>A</u> lternate DNS server:	· · ·
	Advanced
	OK Cancel

- $4\mathchar`-2.$  Setting a weighing instrument and AD8526
- (1) Setting a weighing instrument

Set the function table 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.

\*The serial communication setting of the AD-8526 can be changed to correspond with the setting of a weighing instrument. Please see "7-3. Changing the serial communication setting".

(2) Setting an AD8526

Use "DeviceInstaller" software for setting.

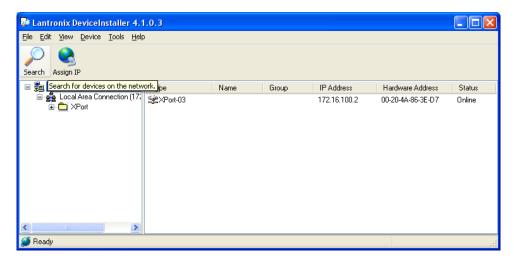
Step 1 Connect the AC adapter to the AD8526.

Step 2 Connect the computer and the weighing instrument with the AD8526 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 3 Start from the Start menu on the computer.

Click "Start", "Program", "Lantronix", "DeviceInstaller" to start.

Step 4 Click "Search" to perform automatic detection of the AD8526 connected to the network.



Step 5 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.

👺 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			
Lantro Assign an IP address to a	<b>107</b>	ion Telnet Configuration	
APort-03 - firmware.	Property	Value	~
172.16.100.2	Name		
	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	
< >	Telnet Enabled	True	~
🏈 Ready			

Step 6 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.

Lantronix DeviceInstaller 4.1.	0.3		
<u>File Edit <del>View</del> D</u> evice <u>T</u> ools <u>H</u> elp			
Search Assign IP Upgrade			
🖃 💭 Lantro Assign an IP address to a d	evice. Details Web Configurat	ion Telnet Configuration	
<ul> <li>gg Local Area Connection (172)</li> </ul>	<u></u>		]
🖻 🧰 XPort 🖹 🍲 XPort-83 - firmware	NC		
172.16.100.2	Property	Value	^
	Name		
	Group		=
	Comments		
	Device Family	XPort	
	Type	XPort-03	
	ID	X5	
	Hardware Address	00-20-4A-86-3E-D7	
	Firmware Version Extended Firmware Version	6.10 6.1.0.0	
	Extended Firmware Version Online Status		
	Telnet Enabled	Online True	
<		0000	~
🏈 Ready			.:

Step 7 Check the "Assign a specific IP address" option and click "Next".



Step 8 Enter the IP address, subnet mask, default gateway and click "Next". It may take a while to proceed to the next screen.

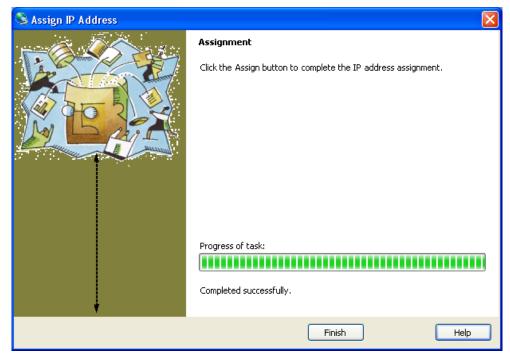
🛇 Assign IP Address			
Assign IP Address	The subnet will be fil it for accuracy. Inco	ddress, subnet, and gateway to assign the dev led in automatically as you type, but please ve prrect values in any of the below fields can mak device to communicate, and can cause network 172.16.100.3 255.255.0.0 0.0.0.0	rify xe it
Ŷ	< B	ack Next > Cancel H	

Step 9 Click the "Assign" button.

It may take a while to complete the setting.

S Assign IP Address	
	Assignment Click the Assign button to complete the IP address assignment. Assign
	< Back Finish Cancel Help

Step 10 Click "Finish".



Step 11 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	
ອີຊີຊ Local Area Connection (17. ອີດີ XPort ອິດຊາ XPort-03 - firmware	2		
172.16.100.3	Property	Value	~
	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	~
	LTION	0000	
<i> Device at</i> 172.16.100.3 was found!			

Step 12 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	<u></u>	
Manual/Repeat sec		
Command Data		
Test Start Command.		
Connect Name ⊠Example		
		·l

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

CH Connect Name	Address	Setting	Send Data	Separator
1 Example	172.16.100.2	Port No. 10001	Q CR/LF	Unit Comma
Add Delete	Property	Up	)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 AD8526.

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 AD8526

(4) Enter the port number of the AD8526. In the default setting, it is set at 10001.

⑤Fill 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.

**(**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 Config				
CH Connect Name	Address	Setting	Send Data	Separator
1 GH-252	172.16.100.2	Port No. 10001		
Add Delete	Property	Up	Down	OK

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		
File(F) Config(G) Copy(C) Excel(E)		
AND	New.csv 2005/05/16 19:35:07	
A&D Company,Limiled		<u>_</u> _
Manual/Repeat 5 sec		_
Command Data		
□ A11		
Test Start Command		
Connect Name @GH-252		
і Э́9Н-300		

💻 Test				<u>_0×</u>
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.

		<u>_   X</u>
	Sample.csv 05/04/12 11:23:16	
A&D Company,Limiled	GH-252 GH-300 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 4 11:21:12 ST +018.2964 a 11:20:39 ST +019.2898	g g
Command Data	5 11:21:17 ST +018.2965 g 11:20:47 ST +019.2182	g
Monitor Stop Command	6 11:21:33 ST +018.6676 g 11:23:02 ST +019.2184 7 11:21:41 ST +018.2251 g 11:23:09 ST +019.2180	g g
Connect Name	8 11:21:51 ST +018.2251 g 11:23:16 ST +019.2180	g
■ GH-252	9 11:22:00 ST +018.2965 g 10 11:22:30 ST +018.2265 g	
⊠ GH-300	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.)

👍 RsMul	lti Ver.1.03P			
File( <u>F</u> )	Config( <u>G</u> )	Copy( <u>C</u> )	Excel( <u>E</u> )	
	2.1		Open	
<b>-</b> -				
A8	DComp	anvLimi	iled	GH-252
				1 11:19:43
Manu	al/Repea	at		2 11:19:49
🗌 🗖 Re	peat	5	sec	3 11:21:07
				/ 11.21.12

ХМ	icrosoft Exc	cel - Sampl	e.csv						
1	<u>File E</u> dit <u>V</u> i	iew <u>I</u> nsert	Format Too	ls <u>D</u> ata <u>W</u> ir	ndow <u>H</u> elp				_ 8 ×
∥₽	🖻 🖬 🧯	i 🔍 🖗	አ 🖻 🖡	l 💅 🗠 ·	- 🗠 - 🔮	, 😤 Σ	f <sub>≈</sub> <mark>A</mark> ↓ A↓	🛍 🔮 🍕	3 🛛 🔪
Aria	al	- 1	0 • B	<u>I U</u> ≣		\$ %	00. 0.↓ 0.↓ 00. €	🛊 🖂 -	• 🕭 • <u>A</u> • <sup>&gt;&gt;</sup>
	A1	-	=						
	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	g				
11	10	11:22:30	ST	182.265	g				
12	11	11:22:33	ST	182.252	g				
13	12	11:22:40	ST	182.239	g				
14	13	11:22:53	ST	182.251	g				
15		-l- /							
_	▶ ▶ \Sam	pie /							
Rea	dy							NUM	

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

(1) The RsMulti window

e RsMulti Ver.1.03P		- II X
File(F) Config(G) Copy(C) Excel(E)	Nava and	
	New.csv 2 05/04/12 11:23:16	
	GH-252 GH-300	
A&D Company,Limited	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
Test Start Command	7 11:21:41 ST +018.2251 g 11:23:09 ST +019.2180	g
Connect Name	8 11:21:51 ST +018.2251 g 11:23:16 ST +019.2180	g
I GH-252 (3)	9 11:22:00 ST +018.2965 g	
	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]		a]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(N) Open(O)
[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 🖄
		Repeat 5 sec
[Config]		
[Open]	Opens the Config window. Displays	the list of connection settings.
[Copy]		
[All area]	Copies the whole table into the clip	board.
[Select area]	Copies a selected area into the clipb	ooard.
	The copied data can be pasted into	the other application form.
[Excel]		
[Open]	Starts Excel automatically and paste	es 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.

ete Conf	ig							_ 🗆	×
CH	Connect	Name	Address	Set	ting	Ser	id Data	Separator	
1	GH-252		172.16.100.2	Port No	. 10001	Q	CR/LF	Comma	
2	GH-300		172.16.100.3	Port No	. 10001	Q	CR/LF	Comma	
A	dd I	Delete	Property	Up	]	)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 Property		
Connect Name  GH-252	Send Data Command Q Terminator CR/LF	Decimal Point • • • • • • • • • • • • • • • • • • •
LAN/COM © LAN IP Address	C COM Port:COM 1	└ Unit └ Comma └ Space
172.16.100.2	Baud Rate 2400 🔽	Tab
10001	Parity E	Data Format
0K Canncel	Stop Bit 1	∏ Time Interval 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 AD8526. 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.

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# 7. Supplementary

7-1. Using as a virtual COM port

With attached software "ComPort Redirector", the AD8526 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", "Program", "Lantronix Redirector", "Configration" to start. 剜 RDCfg \_ 🗆 🗵 Port Configuration Redirect COM2 To: Move Up Advanced Com Setup Move Do<u>w</u>n Add IPX 🔲 Silent Mode Add IP Port Settings Remove Status: Not Loaded 0 Disconnect <u>H</u>elp <u>C</u>lose

(2) Click the [Com Setup] button.

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

Redirected Ports	
Redirected Ports         □ Com1       □ Com11       □ Com21         □ Com2       □ Com12       □ Com22         □ Com3       □ Com13       □ Com23         □ Com3       □ Com13       □ Com23         □ Com4       □ Com14       □ Com24         □ Com5       □ Com15       □ Com25         □ Com6       □ Com16       □ Com26         □ Com7       □ Com17       □ Com27         □ Com8       □ Com18       □ Com28         □ Com9       □ Com19       □ Com29         □ Com10       □ Com20       □ Com30	OK Cancel

(3) Click the [Add IP] button.

Enter the IP address and Port number of the AD8526 and click the OK button. In the default setting of AD8526, IP address is set at 172.16.100.2 and Port number at 10001.

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

(4) Click the [Port Settings] button.

剜 RDCfg		×
Advanced Com Setup	Port Configuration Redirect COM2 To: Move Up [IP] 172.16.100.2:10001 Move Down Add IPX	
. —	Port Settings Add IP	
Status: Not Lo	baded	
<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 Deannect <u>H</u> elp <u>S</u> ave <u>C</u> lose	

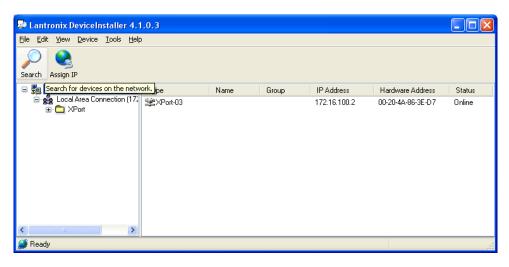
(7) Now, communication with the AD8526 can be enabled by opening the virtual COM port with serial communication software.

In this setting example, the AD8526 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 AD8526 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 AD8526 connected to the network.



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

👺 Lantronix DeviceInstaller 4.1	.0.3				
Eile Edit View Device Tools Help					
Search Assign IP Upgrade					
Lantrq Assign an IP address to a device. Details Web Configuration Telnet Configuration     See Locar Area Connection (177)     See Locar Area Connection (177)					
😑 🥪 XPort-03 - firmware	Property	Value	~		
	Name				
	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			
< >	Telnet Enabled	True	~		
🎒 Ready					

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



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		
M B	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.		
÷ i			
	<pre></pre>		

Step 6 Click the Assign button.

Step 7. Click the Finish button.

🥸 Assign IP Address	
	Assignment Click the Assign button to complete the IP address 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;	ille Edit View Device Iools Help				
Search Assign IP Upgrade					
🖃 🚂 Lantronix Devices - 1 device(s)		tion Telnet Configuration			
🗐 🥵 Local Area Connection (17: ອີ 🧰 XPort	2				
imware	Property	Value			
172.16.100.7	Name				
	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			
<	Telnet Enabled	True	✓		
💋 Ready	L		.;		

#### 7-3. Changing the serial communication setting

The serial communication setting of the AD-8526 can be changed to correspond with the weighing instrument to be connected to it. The factory setting for the AD-8526 is as follows.

Baud rate	2400bps
Data bit	7bits
Parity bit	Even
Stop bit	1 bit

- Step 1 Connect the AD-8526 to a computer on 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 the "Search" button to automatically detect the AD-8526's connection to the network.
- Step 4 Select the instrument of which serial communication settings need to be changed, and then click the Web Configuration tab.

Lantronix DeviceInstaller 4.1	.0.3				
Eile Edit <u>Vi</u> ew <u>D</u> evice <u>T</u> ools <u>H</u> elp					
Search Assign IP Upgrade					
🖃 🚍 Lantronix Devices - 1 device(s)	Device Details Web Configural	tion Telnet Configuration			
gig Local Area Connection [172]     ZPort					
XPort-03 - firmware 272.16.100.2	Property	Value	<u>^</u>		
	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	*		
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.

Section 2017 Secti	
<u>Eile Edit Yiew Device Iools H</u> elp	
Search Assign IP Upgrade	
🖃 👼 Lantronix Devices - 1 device(s) 🛛 Device Details Web Configuration Telnet Configuration	
🖻 🖇 XPort-03 - firmware	External Browser
2 172.16.100.2	
Navigate to http://172.16.100.2:80	
🧭 Device at 172.16.100.2 was found!	.:

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

Connect to 172.16.10	0.2
<u>ئا</u> س	AT THE
Welcome to 172.16.100.2	
User name:	· · · · · · · · · · · · · · · · · · ·
Password:	
B	emember my password
	OK Cancel

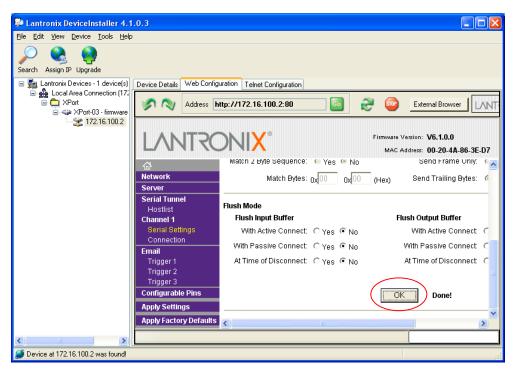
Step 7 When the screen as shown below appears, click "Serial Settings".

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		
	Device Details Web Configuration Telnet Configuration	
Local Area Connection (17: XPort XPort XPort-03 - firmware	Address http://172.16.100.2:80	😂 💷 External Browser 🛛 💷
L 🛫 172.16.100.2	LANTRONIX°	Firmware Version: <b>V6.1.0.0</b> MAC Address: <b>00-20-4A-86-3E-D7</b>
	<b>企</b>	Home
	Network	
	Server Serial Tunnel	
	Hostlist	
	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 8 The serial communication settings that are currently set will appear on the screen. Make changes to them as necessary.

Lantronix DeviceInstaller 4.1.0.3					
Eile Edit View Device Tools Help					
Search Assign IP Upgrade					
🖃 🜉 Lantronix Devices 1 device(s) Device Details Web Configuration Telnet Configuration					
Local Area Connection (17:     Address http://172.16.100.2:80     Port     XPort-03 - firmware     XPort-03 - firmware					
Interview         Firmware Version: V6.1.0.0           MAC Address:         00-20-4A-86-3E-D7					
율 Serial Settings 스					
Network					
Server Channel 1 Serial Tunnel					
Hostiist					
Channel 1 Port Settings					
Serial Settings Protocol: RS232  Flow Control: None					
Email Baud Rate: 2400 🔽 Data Bits: 7 🔽 Parity: Even 💌					
Trigger 1					
Trigger 2 Trigger 3 Pack Control					
Configurable Pins					
Apply Settings Idle Gap Time: 12 msec 💌					
Apply Factory Defaults					
Cone					
Device at 172.16.100.2 was found					

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	.0.3			
<u>Eile Edit View Device Tools H</u> elp	)			
Search Assign IP Upgrade				
🖃 📇 Lantronix Devices - 1 device(s)	Device Details Web Config	guration Telnet Configuration		
ie - ∰ Local Area Connection (172 ie - ∰ XPort ie - ∰ XPort-03 - firmware		nttp://172.16.100.2:80	💦 💿 _ External B	
- 🛫 172.16.100.2	LANTRO	DNI <mark>X</mark> °	Firmware Version: V6.1 MAC Address: 00-2	
	企 Network			
	Server	Please wait while the configurat	ion is saved	
	Serial Tunnel	The unit will reboot in order for	the settings to be applie	ed.
	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 The same screen as shown in Step 7 appears when the settings change is complete. Click "Serial Settings" on the screen to check if the settings have been changed.



Step 12 Confirm that the settings change is complete and then quit the DeviceInstaller.

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 AD8526 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 AD8526 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				
Eile Edit View Device Tools Help				
Search Assign IP Upgrade				
🖃 🚰 Lantronix Devices - 1 device(s)	Device Details Web Configural	ion Telnet Configuration		
🖨 🧝 Local Area Connection (172 📄 🚞 XPort	2			
XPort-03 - firmware 272.16.100.2	Property	Value	<u>^</u>	
······ <u>2</u> 172.16.100.2	Name			
	Group		=	
	Comments			
	Device Family	XPort		
	Туре	XPort-03		
	ID	×5		
	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	~	
	Levies			
🧭 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	
<u>File Edit Yiew Device Tools Help</u>	
Search Assign IP Upgrade	
🖃 👼 Lantronix Devices - 1 device(s) Device Details Web Configuration Telnet Configuration	
🖻 🦇 XPort-03 - firmware	xternal Browser
2 172.16.100.2	
Navigate to http://172.16.100.2:80	
Device at 172.16.100.2 was found!	

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

Connect to 172.	16.100.2	? 🛛
Welcome to 172.16.	100.2	
<u>U</u> ser name:	2	~
Password:		
	Remember my	password
	ОК	Cancel

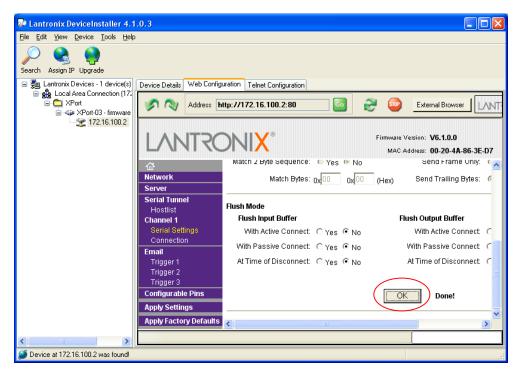
Step 7 When the screen as shown below appears, click "Serial Settings".



Step 8 The current settings for serial communication will be displayed. Confirm that the settings correspond with the balance's settings. 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.

Lantronix DeviceInstaller 4.1.0.3      Elle Edit View Device Tools Help				
Eile Edit View Device Iools Hel;				
<ul> <li>■ ■ Lantronix Devices - 1 device(s)</li> <li>■ ● Local Area Connection (17:</li> <li>■ ● XPort</li> <li>■ ● XPort</li> <li>■ ∞ XPort.03 - firmware</li> <li>■ ∞ 172.16.100.2</li> </ul>	Device Details Web Config	guration Telnet Configuration http://172.16.100.2:80  External Browser		
		Firmware Version: V6.1.0.0 MAC Address: 00-20-4A-86-3E-D7 Serial Settings		
	Network Server Serial Tunnel	Channel 1		
	Hostlist Channel 1 Serial Settings Connection	Port Settings Protocol: RS232 Flow Control: None		
	Email Trigger 1 Trigger 2 Trigger 3	Baud Rate: 2400  Data Bits: 7 Parity: Even  Pack Control		
	Configurable Pins Apply Settings Apply Factory Defaults	Enable Packing     Idle Gap Time: 12 msec		
Device at 172.16.100.2 was found!	Done			

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 4.1.0.3				
Elle Edit View Device Iools Help				
Search Assign IP Upgrade				
🖃 🚰 Lantronix Devices - 1 device(s)	Device Details Web Config	guration Telnet Configuration		
Local Area Connection (17: Connection (		http://172.16.100.2:80 💿 📚 😳 External Browser		
	LANTRO	Firmware Version: V6.1.0.0 MAC Address: 00-20-4A-86-3E-D7		
	<u>ቆ</u>			
	Network			
	Server	Please wait while the configuration is saved		
	Serial Tunnel Hostlist	The unit will reboot in order for the settings to be applied.		
	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 Edit View D</u> evice <u>T</u> ools <u>H</u> elp	1		
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     XPort-03 - firmware     172 10 100 2	Address h	ttp://172.16.100.2:80	🗟 💉 🏧 External Browser
2 172.16.100.2	LANTRO	DNI <mark>X</mark> °	Firmware Version: V6.1.0.0 MAC Address: 00-20-4A-8C-32-AD
	<u>ቆ</u>	Required:	wit turn
	Network	Password:	Modem Mode: None
	Server Serial Tunnel Hostlist		Mdm Esc Seq Pass Thru: ⓒ Yes ◯ Ni
	Channel 1 Serial Settings	Endpoint Configuration:	
	Connection Email Trigger 1	Remote Port: 0	Auto increment for active connect Remote Host: 0.0.0.0
	Trigger 2 Trigger 3 Configurable Pins	Common Options:	
		Telnet Mode: Disable 💌	Connect Response: None
	Apply Settings Apply Factory Defaults	Terminal Name:	Use Hostlist: 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		
<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	guration Telnet Configuration	
⊜ ∰ Local Area Connection (172		nttp://172.16.100.2:80 💿	External Browser
- 🗶 172.16.100.2	LANTRO	2NI <mark>X</mark> °	Firmware Version: V6.1.0.0 MAC Address: 00-20-4A-8C-32-AD
	<u>ය</u>	Terminal Name:	Use Hostlist: 🔿 Yes 💿 No 🛛 🔼
	Network		
	Server Serial Tunnel	Disconnect Mode	
	Hostlist	On Mdm_Ctrl_In Drop: C Yes © No	Hert Discourse to Concern
	Channel 1	Drop: Ves 🖲 No	Hard Disconnect: 💿 Yes C No
	Serial Settings	Check EOT(Ctrl-D): O Yes 💿 No	Inactivity Timeout: 0 : 0 ,
	Connection Email		
	Trigger 1		
	Trigger 2		
	Trigger 3		
	Configurable Pins		OK Done!
	Apply Settings		~
	Apply Factory Defaults		
< >	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.