I/O CARD QUICK START GUIDE
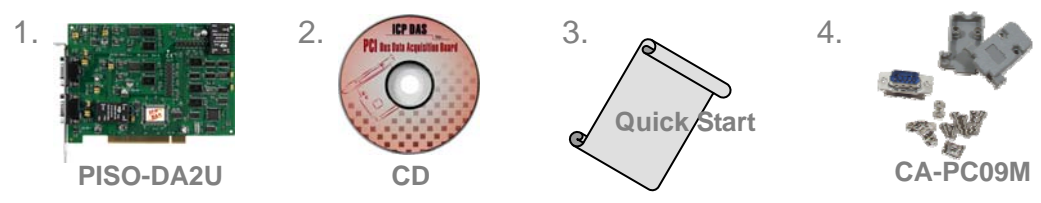
for **PISO-DA2U**

Language	English
Version	V1.1
Update	Aug.2010

1 What's in your package?

➢ One PISO-DA2U series card
➢ One companion PCI CD (V4.9 or later)
➢ One Quick Start Guide(This document)
➢ Two CA-PC09M D-Sub connectors

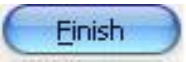| 1.	2.	3.	4.
PISO-DA2U	CD	Quick Start	CA-PC09M

2 Installing Windows Driver

Follow these steps:

1. Set up the Windows driver.
   The driver is located at: CD:\NAPDOS\PCI\PISO-DA2\
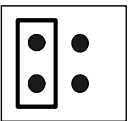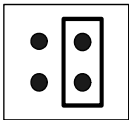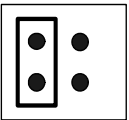   http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-da2/
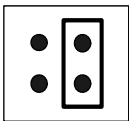
2. Click the **Next >** button to start the installation.

3. Click the **Next >** button to install the driver into the default folder.

4. Click the **Install** button to continue the installation.

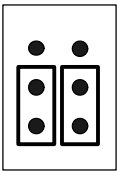5. Select **"NO, I will restart my computer later"** and then click the **Finish** button.
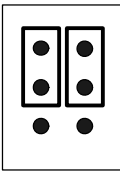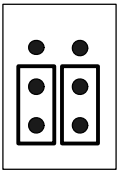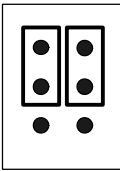
3 Jumper Setting

※ **please make sure that all jumpers are kept in default setting before self-test.**

➢ JP6 and JP10: External or internal reference voltage setting.
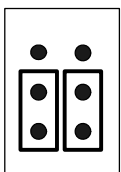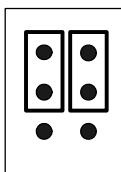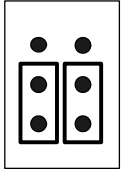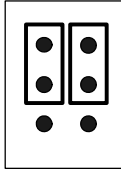
Channel	Internal Reference Voltage (Default)	External Reference Voltage
Channel 1	JP6 EXT INT	JP6 EXT INT
Channel 2	JP10 EXT INT	JP10 EXT INT

➢ JP4 and JP8: -5 V or –10 V Internal reference voltages setting.
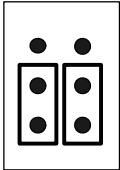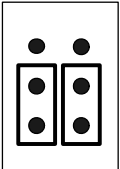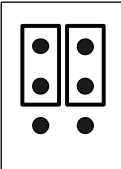
Channel	-5V (Default)	-10V
Channel 1	JP4 -10V -5V	JP4 -10V -5V
Channel 2	JP8 -10V -5V	JP8 -10V -5V

➢ JP1, JP2, JP5 and JP9: Bipolar or Unipolar setting.

JP1

BP

UP

JP2

BP

UP
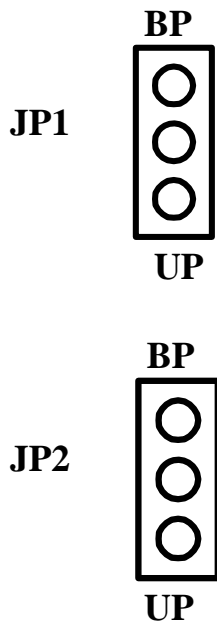
Channel	Unipolar (Default)	Bipolar
Channel 1	JP5 BP UP	JP5 BP UP
Channel 2	JP9 BP UP	JP9 BP UP

➤ JP3 and JP7: 0~20 mA or 4~20 mA current loop setting.

Channel	4-20mA (Default)	0-20mA
Channel 1	JP3 0-20mA 4-20mA	JP3 0-20mA 4-20mA
Channel 2	JP7 0-20mA 4-20mA	JP7 0-20mA 4-20mA

4 Installing Hardware on PC

Follow these steps:

1. Shut down and power off your computer.

2. Remove the cover from the computer.

3. Select an unused PCI slot.

4. Carefully insert your I/O card into the PCI slot.

5. Replace the PC cover.

6. Power on the computer.

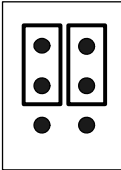After powering-on the computer, please finish the Plug&Play steps according to the prompt message.

5 Pin Assignments

➢ Pin assignment of CN1 and CN2.

	CN1 (DA channel 1)		CN2 (DA channel 2)
1	Voltage output	1	Voltage output
2	Signal GND	2	Signal GND
3	EXTREF: Ref. Voltage Input	3	EXTREF: Ref. Voltage Input
4	Signal GND	4	Signal GND
5	Signal GND	5	Signal GND
6	Signal GND	6	Signal GND
7	I_{OUT}: Current output	7	I_{OUT}: Current output
8	Signal GND	8	Signal GND
9	VDD:+15 V output	9	VDD:+15 V output
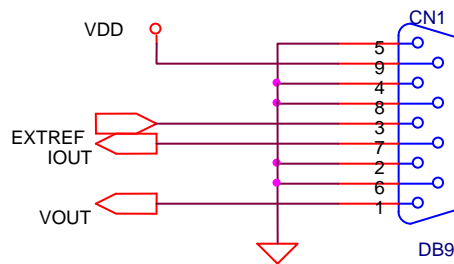
The legend of CN1 pin assignments
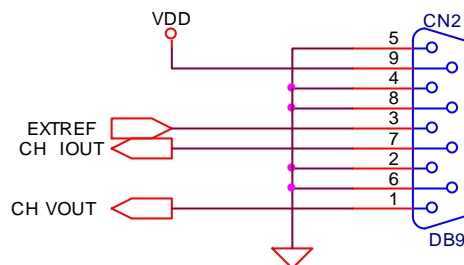
The legend of CN2 pin assignments

6 Self Test

1. Use the CA-0915 to connect the CN1 or CN2 to DN-09-2(Optional).

2. Connect the positive probe (+) of Multi-meter to CN1/CN2.Voltage Output; the negative probe (-) of Multi-meter to CN1/CN2.Signal GND.

CA-0915

Connect

CN1

CN2

Connect

DN-09-2 Wiring

9 8 7 6

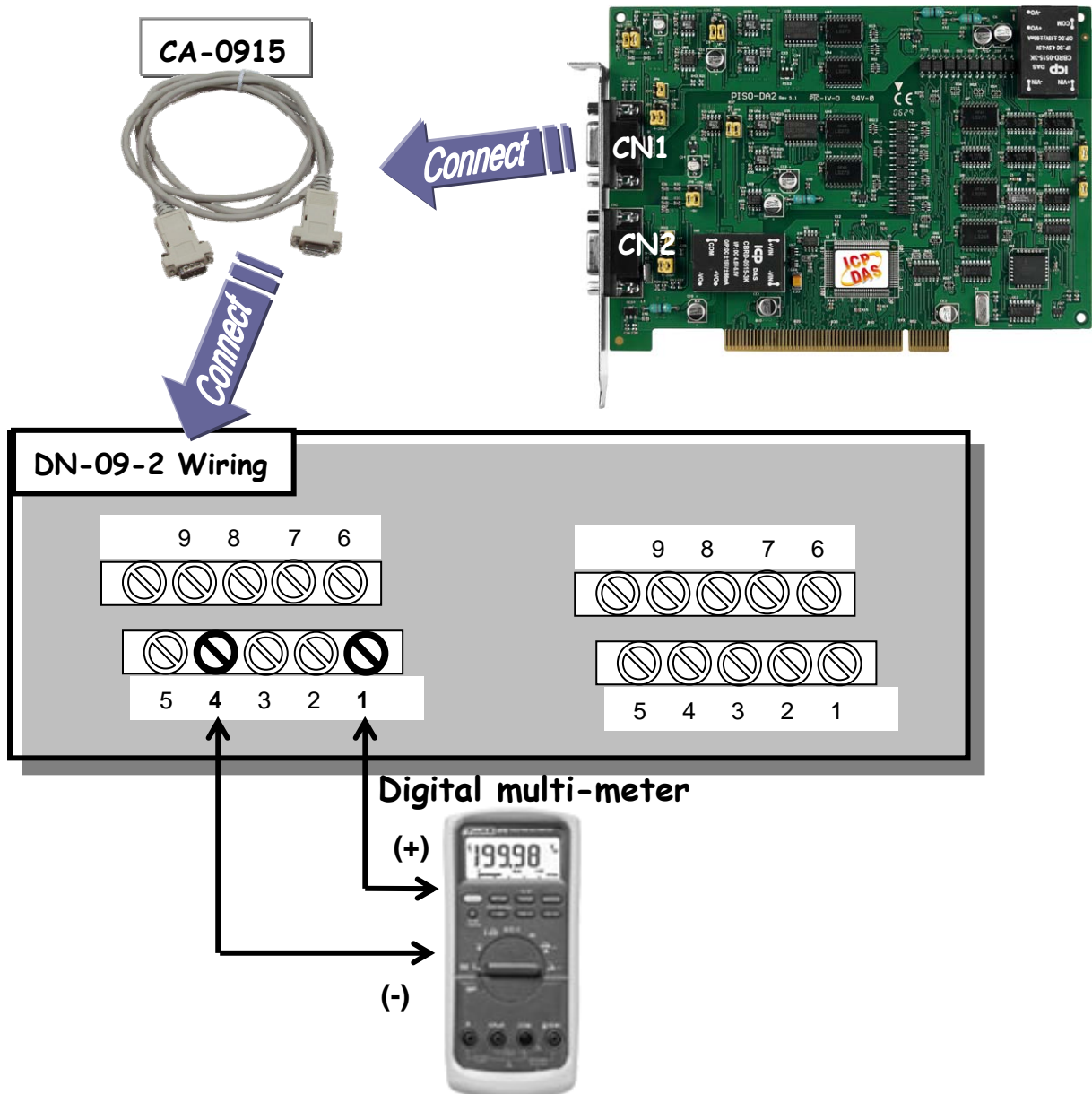5 4 3 2 1

9 8 7 6

5 4 3 2 1

Digital multi-meter

(+)

19998

(-)

3. Execute the PISO-DA2 sample program.

The sample program is contained in:

C:\DAQPro\PISO-DA2\DEMO

4. Check the board number of the PISO-DA2U and test DA function.

1. Select the board number for the **PISO-DA2U**. It starts from 0.

2. Check JPs setting states of Channel1 and channel2. (Meet to JPx setting on board)

5. Check the DA test result.

(The value read on meter may be a little difference from the DA value because of the resolution limit of meter or the measurement error.)

3. Check the value on **multi-meter**, they should be identical to the values set in program.

4.49...

Complete

7 Additional Information

✓ **PISO-DA2U Series Card Product page:**

http://www.icpdas.com/products/DAQ/pc_based/piso_da2.htm

✓ **DN-09-2**(Optional) **and CA-0915**(Optional) **page:**

http://www.icpdas.com/products/DAQ/screw_terminal/dn_09_2.htm
http://www.icpdas.com/products/Accessories/cable/cable_selection.htm

✓ **Documentation:**

CD:\NAPDOS\PCI\PISO-DA2\Manual

http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-da2/manual/

✓ **Software:**

CD:\NAPDOS\PCI\PISO-DA2

http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-da2/

The ICP DAS Web Site

http://www.icpdas.com

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- Supplies and ordering information
- Information related to upgrades, new technologies, products and solutions
- FAQ
- Application examples

Contact Us

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