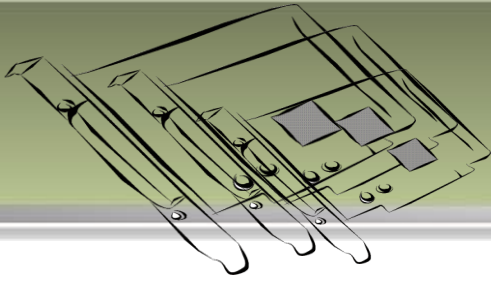


I/O CARD QUICK START GUIDE

For PISO-DA2U

English/ Jun. 2013/ Version 1.2



1 What's in the shipping package?

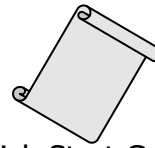
The package includes the following items:



PISO-DA2U



Software Utility CD
(V5.2 or later)



Quick Start Guide
(This Document)



Two CA-PC09M
D-Sub Connectors

2 Installing Windows Driver

Step 1: Setup the Windows driver. The driver is located at:

- The UniDAQ driver supports 32-/64-bit Windows 2K/XP/2003/Vista/7/8; it is recommended to install this driver for new user:
CD: \NAPDOS\PCI\UniDAQ\DLL\Driver
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/dll/driver/>
- The PISO-DA2 series driver supports Windows 98/NT/2K and 32-bit XP/2003/ Vista/7/8. Recommended to install this driver for have been used PISO-DA2 series board of regular user, please refer to :
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/piso-da2/manual/quickstart/classic/>

Step 2: Click the "Next>" button to start the installation.

Step 3: Check your DAQ Card is or not on supported list, then click the "Next>" button.

Step 4: Select the installed folder, the default path is C:\ICPDAS\UniDAQ , confirm and click the "Next>" button.

Step 5: Check your DAQ Card on list, then click the "Next>" button.

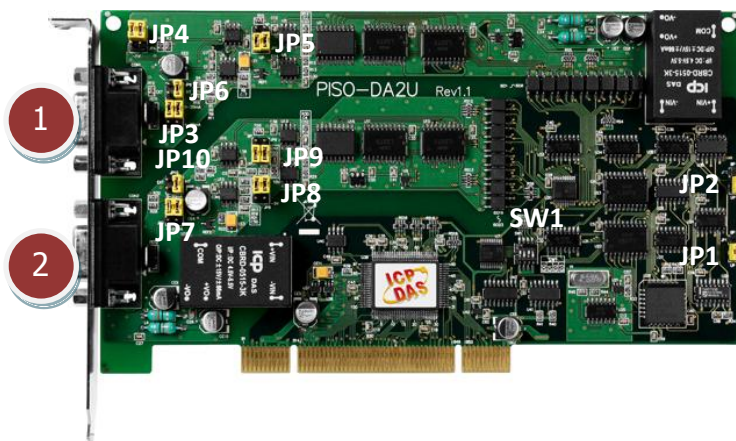
Step 6: Click the "Next>" button on the **Select Additional Tasks** window.

Step 7: Click the "Next>" button on the **Download Information** window.

Step 8: Select "No, I will restart my computer later" and then click the "Finish" button.

For detailed information about the driver installation, please refer to Chapter 2.1 "Getting the UniDAQ Driver DLL Installer package" of the UniDAQ SDK user manual.

3 Jumper Setting

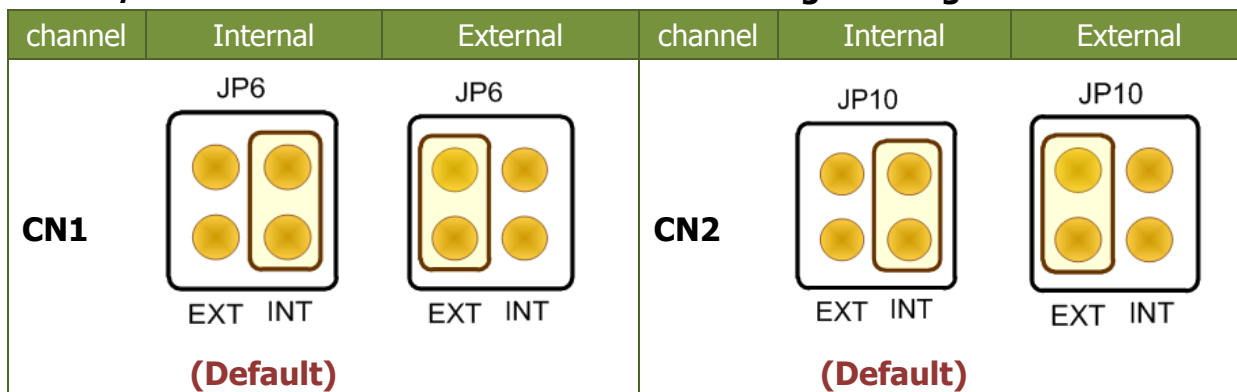


1. **CN1:** D/A converter channel-1
2. **CN2:** D/A converter channel-2
3. **JP1/JP2/JP5/JP9:** Bipolar or Unipolar setting.
4. **JP4/JP8:** -5 V or -10 V internal reference voltages setting.
5. **JP3/JP7:** 0~20 mA or 4-20 mA current loop setting.
6. **JP6/JP10:** External or internal reference voltage setting.
7. **SW1:** Card ID setting.

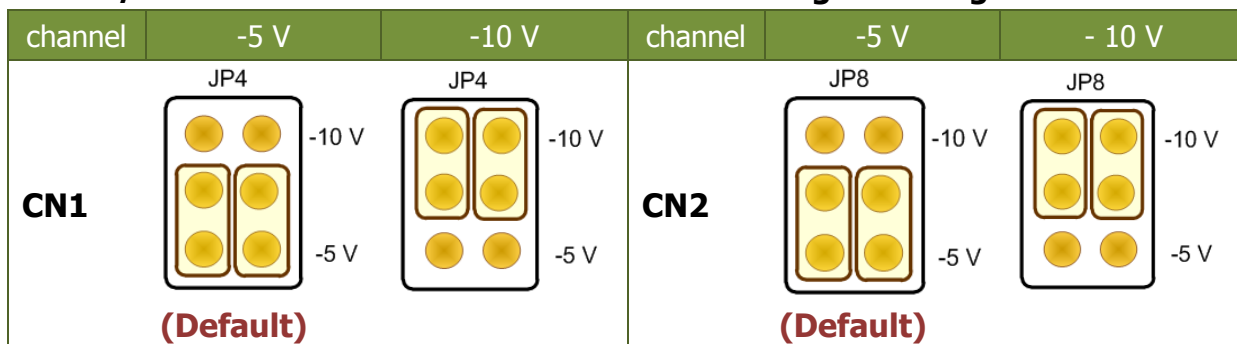
For more detailed jumper information, please refer to manual section 2.2 Configuration of D/A Output signal. (CD:\NAPDOS\PCI\PISO-DA2>manual\)

Please make sure that all jumpers are kept in default setting before self-test.

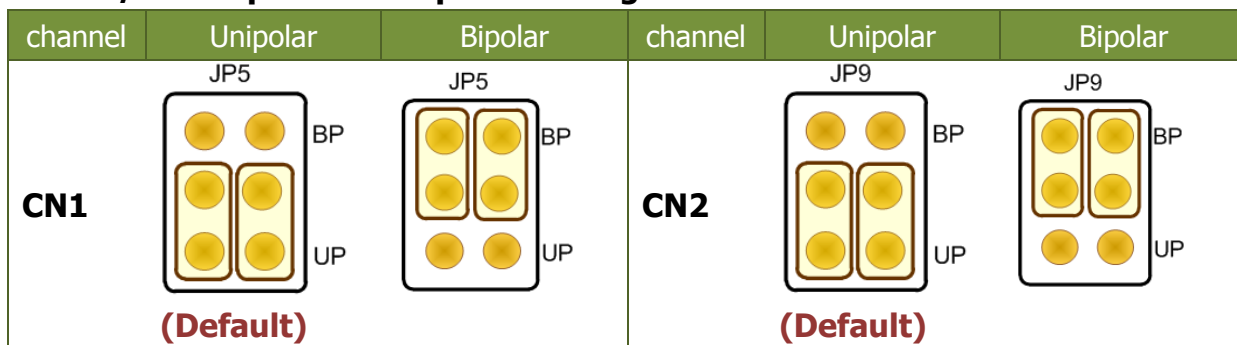
■ **JP6/JP10: External or internal reference voltage setting.**



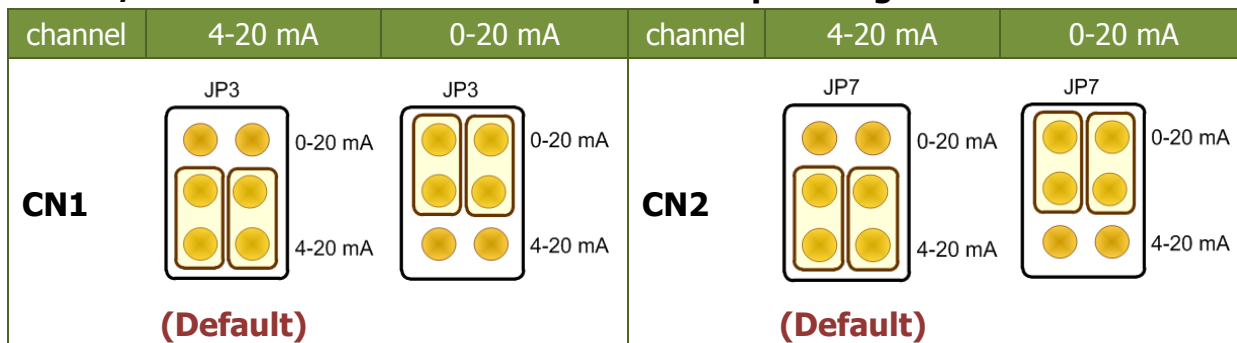
■ **JP4/JP8: -5 V or -10 V Internal reference voltages setting.**



■ **JP5/JP9: Bipolar or Unipolar setting.**



■ **JP3/JP7: 0~20 mA or 4~20 mA current loop setting.**



4 Installing Hardware on PC


- Step 1: Shut down and power off your computer.**
- Step 2: Remove the cover from the computer.**
- Step 3: Select an unused PCI slot.**
- Step 4: Carefully insert your I/O card into the PCI slot.**
- Step 5: Replace the PC cover.**
- Step 6: Power on the computer.**

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

5 Pin Assignments


- **CN1 and CN2 D/A Connector (Male DB9).**

Pin Assignment			Pin Assignment
GND	05	09	+ 15 V
GND	04	08	GND
ExtREF V Int	03	07	I OUT
GND	02	06	GND
V OUT	01		



CN1

Pin Assignment			Pin Assignment
GND	05	09	+ 15 V
GND	04	08	GND
ExtREF V Int	03	07	I OUT
GND	02	06	GND
V OUT	01		



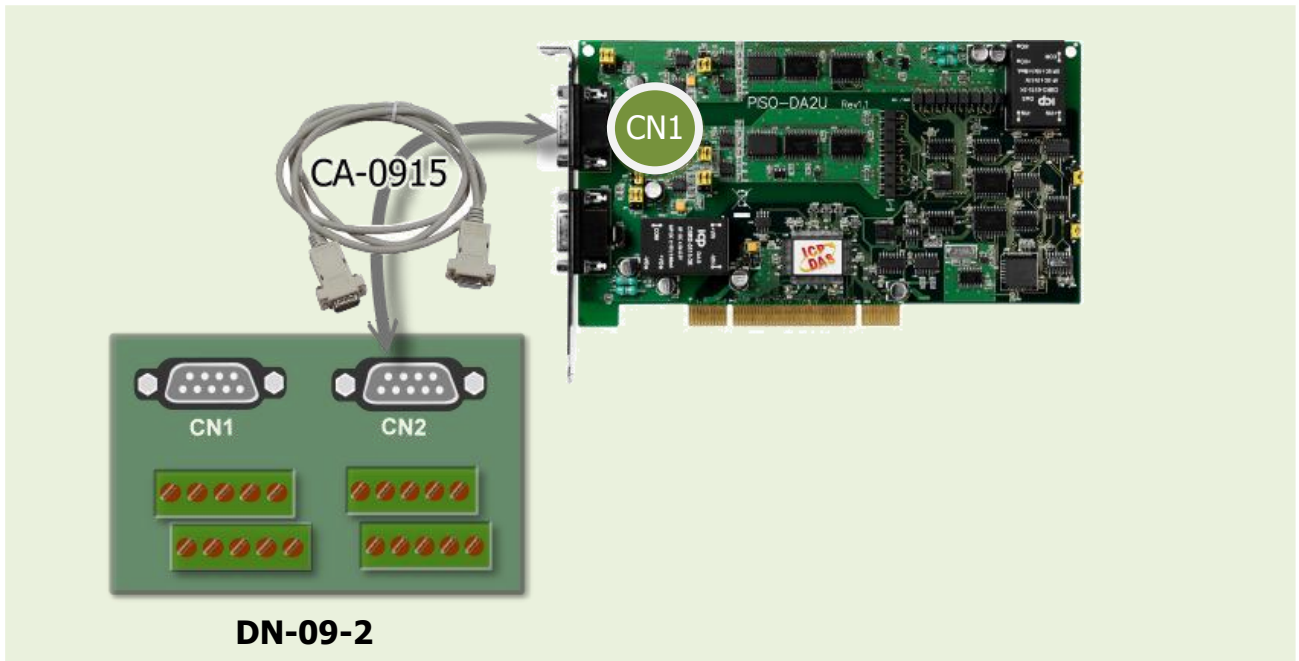
CN2

6 Self-Test

1. Prepare for device:

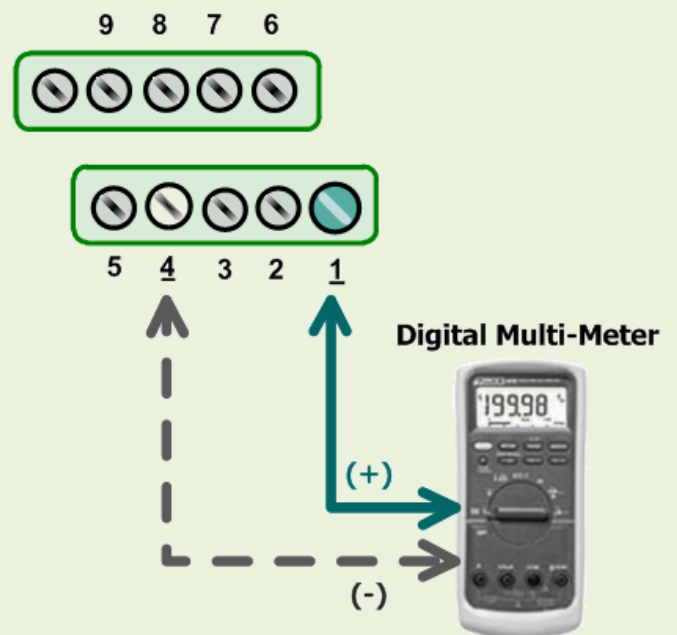
- DN-09-2 (optional) Wiring terminal board.
- Digital Multi-Meter.

2. Connect a DN-09-2 to the CN1.



3. **Connect the positive probe (+) of Multi-meter to CN1.V OUT (Pin 01).**

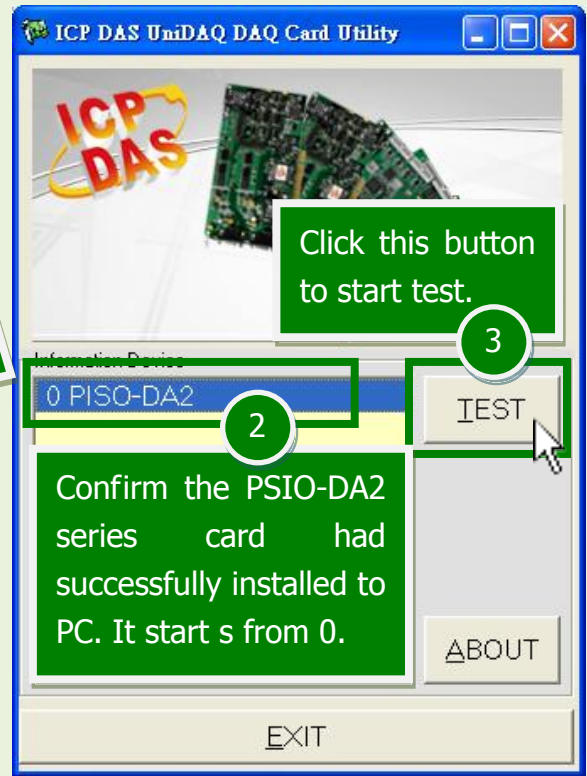
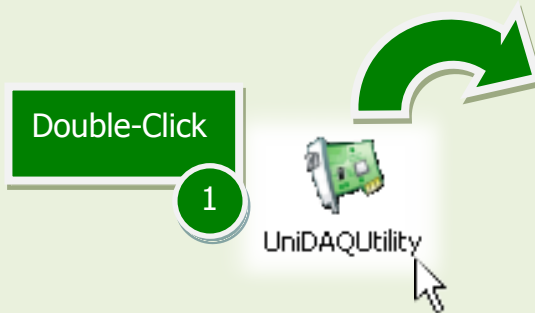
4. **Connect the negative probe (-) of Multi-meter to CN1.GND (Pin 04).**



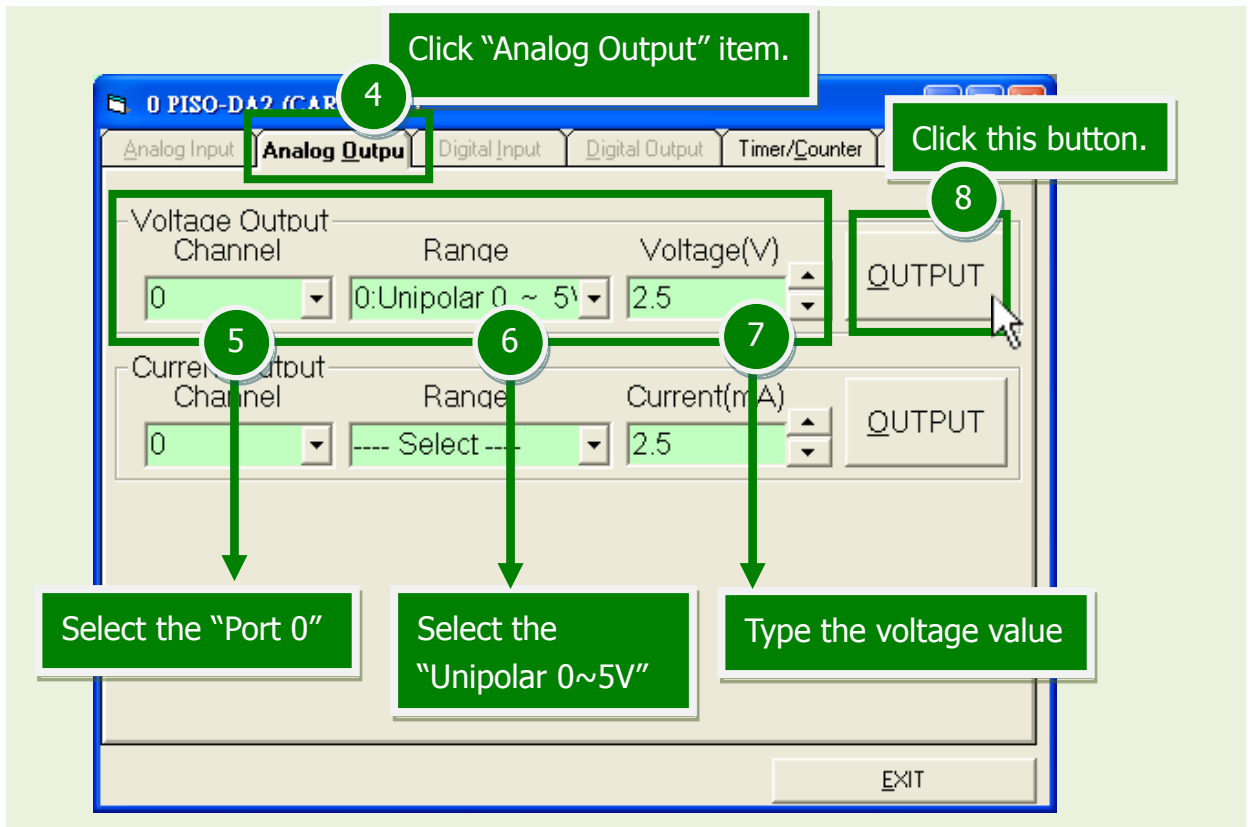
5. Execute the UniDAQ Utility Program.

This program (UniDAQ Utility) will be placed in the default path after completing installation.

Default Path: C:\ICPDAS\UniDAQ\Driver\



6. Get Analog Output function test result.



PASS

9

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

2.499

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.

7 Related Information

- PISO-DA2U Series Card Product Page:
http://www.icpdas.com/root/product/solutions/pc_based_io_board/pci/piso-da2.html
- CA-0915 and DN-09-2 page (optional):
http://www.icpdas.com/products/Accessories/cable/cable_selection.htm
http://www.icpdas.com/products/DAQ/screw_terminal/dn_09_2.htm
- Documentation and Software:
CD:\NAPDOS\PCI\UniDAQ\
<http://ftp.icpdas.com/pub/cd/iocard/pci/napdos/pci/unidaq/>