

Appendix A. Using NetView & NetSolver

Appendix A.1 NetView

This section describes how to implement your 1782-JDA8 with Cutler-Hammer's NetView DeviceNet configuration utility.

Appendix A.1.1 How to Connect Your JDA8 to NetView.

1. Set up the DeviceNet system with the JDA8 attached to your Cutler-Hammer scanner card with DeviceNet power.
2. Start NetView
3. Double Click on the DeviceNet icon. This will display the Configuration Tool and a Generic Device.
4. Double click on the Generic Device to display the 1782-JDA8.

Appendix A.1.2 How to Define a Channel to be an Analog Output with NetView

1. At the top menu bar, highlight the **Node** pulldown menu and select **Message**. A new screen will appear.
2. In the **New Message** section, click the **Explicit** button.
3. Set the Service Type to **Set Single**.
4. Set the **Class = 0F** (hex) or 15 (decimal)
5. Set the **Instance = 01, 0B, 15 or 1F** (hex) for channel 0, 1, 2 or 3, respectively.
6. Enter the two numbers "**01 02**" (or simply "1 2") in the **Data Field** (this defines 1 datum item with a value of 2 for AO).
7. Click on the **Set Single** message to **highlight the message**
8. Click **Send Message**
9. The Response Field will display **Success**, if properly performed.
10. To change another channel to an analog output, change the value in the explicit message line in step 5 in this section and complete the remaining steps.

Appendix A.1.3 How to Define a Channel to be a DI, DO or AI

Perform the same operations listed above for an Analog Output, using the desired channel number and the appropriate parameter value for the desired channel type: 1 = AI, 2 = AO, 4 = DI, 8 = DO.

Appendix A.1.4 How to Read the I/O Configuration on Your JDA8 with NetView

1. Click on the 1782-JDA8 to highlight it
2. Click on **Messages** option from the pull-down menu.
3. In the **New Message** section, click the **Explicit** button.

4. Set the Service Type to **Get Single**.
5. Set the **Class = 0F** (hex) or 15 (decimal)
6. Set the **Instance = 01, 0B, 15, 1F, 29, 33, 3D, 47** (hex) for channel 0, 1, 2, . . . or 7, respectively
7. Enter **1 in the Data Field** (the number of datum to read)
8. Click on the **Get Single** message to highlight the message
9. Click **Send Message**
10. The Response Field will display the number of channel type channels defined, 1, 2, 4 or 8.

Appendix A.2 NetSolver

The JDA8 has up to 8 analog channels, some of which may be inputs and some outputs. The poll sizes for request and response are fixed and do not change with changes to the I/O configuration.

Appendix A.2.1 How to Configure Your JDA8 on NetSolver for polling

1. Set up the DeviceNet system with the JDA8 attached to your Cutler-Hammer scanner card with DeviceNet power.
2. Start NetSolver
3. Open an existing project or start a new project.
4. Under the Configuration pull-down menu, bring up the **project Editor**

Appendix A.2.2 How to Configure the Size of the Poll I/O Message

1. Double Click on the **DeviceNet icon**. This will display the Configuration Tool and a Generic Device.
2. Click on the **1782-JDA8** to highlight it.
3. For **Connection A**, select **Poll** in the Type field
4. In the **Response** field, insert **16**, which is the number of bytes with which the the JDA8 will respond **for all configurations**.
5. In the **Request** field, insert **12**, which is the number of bytes with which the the JDA8 will receive **for all configurations**.
6. Now define the Interval appropriately for your system and click OK

Appendix A.2.3 How to Define the Input/Output Tags for the Application Program

1. Click on the **1782-JDA8** to highlight it
2. Click on an **input or output tag** and bring it to the JDA8
3. Define the **tag name**
4. Select **Input or Output**

5. Select **Connection A**
6. Select **Word**
7. Select **16 Bits**
8. In the **Response Buffer Offset Field**, insert the number of bytes of offset in the Response Buffer within the NetSolver system where this input channel will have its data returned. The AI's are 12-bit data so each AI channel requires 2 bytes in the Response Buffer. The DI's also take up 2 bytes of data space each. Use the table below.
9. In the **Request Buffer Offset Field**, insert the number of bytes of offset in the Request Buffer within the NetSolver system this analog or discrete output channel will require from NetSolver. The AO's are 12-bit data so each AO channel requires 2 bytes in the Request Buffer. The DO's are 1 bit data, but use 2 bytes of data space. See the table below.
10. The following table provides specific information about I/O channel buffer offsets.

I/O Channel #	Response Buffer Offset	Request Buffer Offset
0	0	0
1	2	2
2	4	4
3	6	6
4	8	N/A
5	10	N/A
6	12	8
7	14	10

Table Appendix A-1 I/O Buffer Offsets

Appendix A.2.4 How to Configure the Size of the Cyclic or COS I/O Message

Use the same procedure as above for Poll Response connections. There is no associated Request.