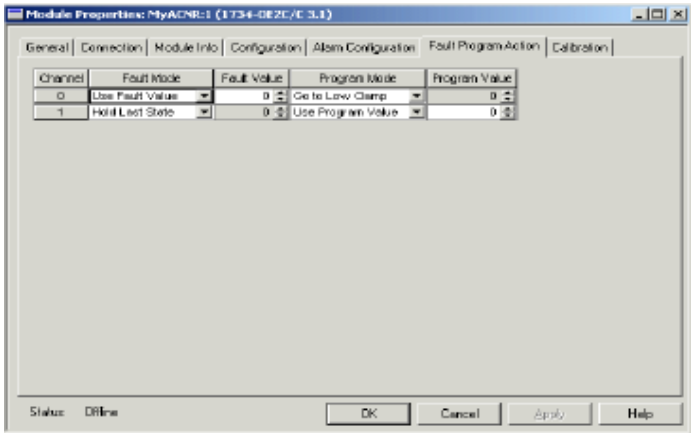
ATTENTION: Read this document and the documents listed in the Additional Resources section about installation, configuration, and operation of this equipment before you install, configure, operate or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to applicable codes, laws, and standards.
Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice. If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
注意：在安装、配置、操作和维护本产品前，请阅读本文档以及 “其他资源” 部分列出的有关设备安装、配置和操作的相应文档。除了所有适用规范、法律和标准的相关要求之外，用户还必须熟悉安装和接线说明。
安装、调整、投运、使用、组装、拆卸和维护等各项操作必须由经过适当训练的专业人员按照适用的操作规范实施。
如果未按照制造商指定的方式使用该设备，则可能会损害设备提供的保护。
ATENCIÓN: Antes de instalar, configurar, poner en funcionamiento o realizar el mantenimiento de este producto, lea este documento y los documentos enumerados en la sección Recursos adicionales acerca de la instalación, configuración y operación de este equipo. Debe familiarizarse con las instrucciones de instalación y cableado y con los requisitos de todos los códigos, leyes y estándares vigentes.
El personal debidamente capacitado debe realizar las actividades de instalación, ajustes, puesta en servicio, uso, ensamblaje, desensamblaje y mantenimiento de conformidad con el código de práctica aplicable. Si este equipo se usa de una manera no especificada por el fabricante, la protección provista por el equipo puede resultar afectada.
ATENÇÃO: Leia este e os demais documentos sobre instalação, configuração e operação do equipamento que estão na seção Recursos adicionais antes de instalar, configurar, operar ou manter este produto. Os usuários devem se familiarizar com as instruções de instalação e fiação além dos requisitos para todos os códigos, leis e normas aplicáveis.
É necessário que as atividades, incluindo instalação, ajustes, colocação em utilização, uso, montagem, desmontagem e manutenção sejam realizadas por pessoal qualificado e especializado, de acordo com o código de prática aplicável.
Caso este equipamento seja utilizado de maneira não especificada, a proteção fornecida pelo equipamento poderá ser prejudicada.
ВНИМАНИЕ: Перед тем как устанавливать, настраивать, эксплуатировать или обслуживать данное оборудование, прочитайте этот документ и документы, перечисленные в разделе «Дополнительные ресурсы». В этих документах изложены сведения об установке, настройке и эксплуатации данного оборудования. Пользователи обязаны ознакомиться с инструкциями по установке и прокладке соединений, а также с требованиями всех применимых норм, законов и стандартов.
Все действия, включая установку, наладку, ввод в эксплуатацию, использование, сборку, разборку и техническое обслуживание, должны выполняться обученным персоналом в соответствии с применимыми нормами и правилами.
Если оборудование используется не предусмотренным производителем образом, защита оборудования может быть нарушена.
注意：本製品を設置、構成、稼動または保守する前に、本書および本機器の設置、設定、操作についての参考資料の該当箇所に記載されている文書に目を通してください。ユーザは、すべての該当する条例、法律、規格の要件に加えて、設置および配線の手順に習熟している必要があります。
設置調整、運転の開始、使用、組立て、解体、保守を含む諸作業は、該当する実施規則に従って訓練を受けた適切な作業員が実行する必要があります。
本機器が製造メーカにより指定されていない方法で使用されている場合、機器により提供されている保護が損なわれる恐れがあります。
ACHTUNG: Lesen Sie dieses Dokument und die im Abschnitt „Weitere Informationen“ aufgeführten Dokumente, die Konfiguration und Betrieb dieses Produkts enthalten, bevor Sie dieses Produkt installieren, konfigurieren, bedienen oder warten. Anwender müssen sich neben den Vorschriften, Gesetze und Normen zusätzlich mit den Installations- und Verdrahtungsanweisungen vertraut machen.
Arbeiten im Rahmen der Installation, Anpassung, Inbetriebnahme, Montage, Demontage oder Instandhaltung dürfen nur durch ausreichend geschulte Mitarbeiter und in Übereinstimmung mit den anwendbaren Ausführungsvorschriften vorgenommen werden.
Wenn das Gerät in einer Weise verwendet wird, die vom Hersteller nicht vorgesehen ist, kann die Schutzfunktion beeinträchtigt s
ATTENTION: Lisez ce document et les documents listés dans la section Ressources complémentaires relatifs à l'installation, la configuration et l'exploitation de cet équipement avant d'installer, configurer, utiliser ou entretenir ce produit. Les utilisateurs doivent se familiariser avec les instructions d'installation et de câblage en plus des exigences relatives aux codes, lois et normes en vigu
Les activités relatives à l'installation, le réglage, la mise en service, l'utilisation, l'assemblage, le démontage et l'entretien doivent être réalisées par des personnes selon le code de pratique en vigueur.
Si cet équipement est utilisé d'une façon qui n'a pas été spécifiée par le fabricant, la protection fournie par l'équipement peut être compromise.
주의: 본 제품 설치, 설정, 작동 또는 유지 보수하기 전에 본 문서를 포함하여 설치, 설정 및 작동에 관한 참고 자료 섹션의 문서들을 반드시 읽고 숙지하십시오. 사용자는 모든 관련 규정, 법규 및 표준에서 요구하는 사항에 대해 반드시 설치 및 배선 지침을 숙지해야 합니다.
설치, 조정, 가동, 사용, 조립, 분해, 유지보수 등 모든 작업은 관련 규정에 따라 적절한 교육을 받은 사용자를 통해서만 수행해야 합니다.
본 장비를 제조사가 명시하지 않은 방법으로 사용하면 장비의 보호 기능이 손상될 수 있습니다.
ATTENZIONE: Prima di installare, configurare ed utilizzare il prodotto, leggere questo documento ed i documenti elencati nella sezione “Altre risorse”, riguardanti l'installazione, la configurazione ed il funzionamento dell'apparecchiatura. Gli utenti devono conoscere le istruzioni di installazione e cablaggio, oltre ai requisiti previsti dalle leggi, codici e standard applicabili.
Le attività come installazione, regolazioni, utilizzo, assemblaggio e manutenzione devono essere eseguite da personale adeguatamente addestrato, nel rispetto delle procedure previste
Qualora l'apparecchio venga utilizzato con modalità diverse da quelle previste dal produttore, la funzione di protezione fornita potrebbe venire compromessa.
DİKKAT: Bu ürünün kurulumu, yapılandırması, işletilmesi veya bakımından önce bu dokümanı ve bu ekipmanın kurulumu, yapılandırması ve işletimi ile ilgili Ek Kaynaklar bölümünde yer listelenmiş dokümanları okuyun. Kullanıcılar yürürlükteki tüm yönetmelikler, yasalar ve standartlara ek olarak kurulum ve kablolama talimatlarına aşina olmak zorundadır.
Kurulum, ayarlama, hizmete alma, kullanım, montaj, parça çıkarma ve bakım gibi aktiviteler sadece uygun eğitimli kişiler tarafından yürürlükteki uygulama yönetmeliklerine uygun şekilde yapılabilir.
Bu ekipman üreticinin belirlemediği bir şekilde kullanılırsa, ekipman tarafından sağlanan koruma bozulabilir.
注意事項：在安裝、設定、操作或維護本產品前，請先閱讀此文件以及列於 「其他資源」章節中有關安裝、設定與操作此設備的文件。使用者必須熟悉安裝和配線指示，並符合所有法規、法律和標準要求。
包括安裝、調整、交付使用、使用、組裝、拆卸和維護等動作都必須交由已經過適當訓練的人員進行，以符合適用的實作法規。
如果將設備用於非製造商指定的用途時，可能會造成設備所提供的保護功能受損。
POZOR: Než začnete instalovat, konfigurovat, uvádět do provozu, používat tento výrobek nebo provádět jeho údržbu, přečtěte si tento dokument a dokumenty uvedené v části Další zdroje ohledně instalace, konfigurace a provozu tohoto zařízení. Uživatelé se musejí vedle příslušných ustanovení seznámit také s pokyny pro instalaci a elektrické zapojení.
Činnosti zahrnující instalaci, nastavení, uvedení do provozu, užívání, montáž, demontáž a údržbu by měly být prováděny vhodně vyškolenými pracovníky v souladu s příslušnými předpisy.
Pokud se toto zařízení používá způsobem neodpovídajícím specifikaci výrobce, může být narušena ochrana, kterou toto zařízení poskytuje.
UWAGA: Przed instalacją, konfiguracją, użytkowaniem lub konserwacją tego produktu należy zapoznać się z niniejszym dokumentem oraz wszystkimi dokumentami wymienionymi w sekcji Dodatkowe omawiające instalację, konfigurację, procedury użytkowania tego urządzenia. Użytkownicy mają obowiązek zapoznać się z instrukcjami dotyczącymi instalacji oraz okablowania, jak również obowiązującymi kodeksami, prawem i normami.
Działania obejmujące instalację, regulację, przekazanie do użytkowania, użytkowanie, montaż, demontaż oraz konserwację muszą być wykonywane przez odpowiednio przeszkolony personel zgodnie z obowiązującym kodeksem postępowania.
Jeśli urządzenie jest wykorzystywane w sposób inny niż określony przez producenta, zabezpieczenie zapewniane przez urządzenie może zostać ograniczone.
OBS! Läs detta dokument samt dokumenten, som står listade i avsnittet Övriga resurser, om installation, konfiguration och drift av denna utrustning innan du installerar, konfigurerar eller börjar använda eller utföra underhållsarbete på produkten. Användare måste bekanta sig med instruktioner för installation och kabeldragning förutom med tillämpliga koder, lagar och standarder.
Åtgärder som installation, justering, service, användning, montering, demontering och underhållsarbete måste utföras av lämpligt utbildning enligt lämpligt bruk.
Om denna utrustning används på ett sätt som inte anges av tillverkaren kan det hända att utrustningens skyddsanordningar inte fungerar som
LET OP: Lees dit document en de documenten die genoemd worden in de paragraaf Aanvullende informatie over de installatie, configuratie en bediening van deze apparatuur voordat u dit product installeert, configureert, bediend of onderhoudt. Gebruikers moeten zich vertrouwd maken met de installatie- en bedradingsinstructies naast de toepasselijke regels, wetten en normen.
Activiteiten zoals het installeren, afstellen, in gebruik stellen, gebruiken, monteren, demonteren en onderhoud uitvoeren moeten worden uitgevoerd door hiervoor opgeleid personeel in overeenstemming met de geldende praktijkregels.
Indien de apparatuur wordt gebruikt op een wijze die niet is gespecificeerd door de fabrikant, dan bestaat het gevaar dat de beveiliging door de apparatuur niet goed werkt.

You see a Fault/Program Action dialog.



2. From the Fault/Program Action dialog, complete items, referring to the table.

For This Value	Select	Comments
Fault Mode	Hold Last State Go to Low Clamp Go to High Clamp Use Program Value	Default is Go to Low Clamp.
Fault Value	-32768…32767	Default is 0.
Program Mode	Hold Last State Go to Low Clamp Go to High Clamp Use Program Value	Default is Go to Low Clamp.
Program Value	-32768…32767	Default is 0.

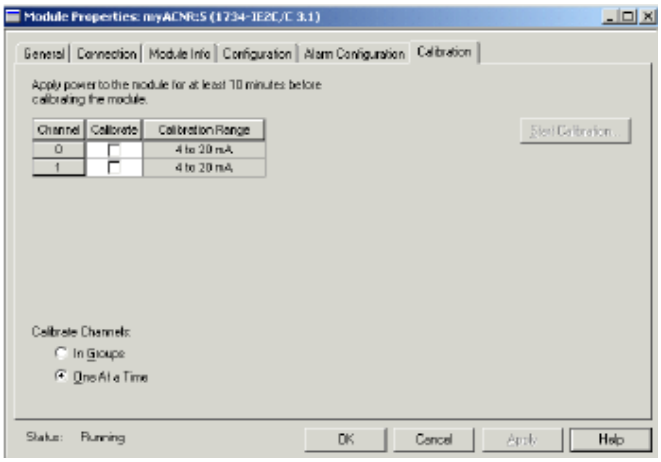
3. From the bottom of the dialog, perform one of the following:
   - Click another tab at the top of the dialog.
     or
   - Click OK to save changes and close the dialog.
     or
   - Click Cancel to return to default values.
     or
   - Click Apply to save changes you made on any of the dialogs and continue to display the dialog, noting that you enable the Apply button when you make changes to any of the dialogs

Work with the Calibration Dialog

To complete entries on this dialog, proceed as follows. Perform calibration in Hard Run or Remote mode. For information about the tools and steps for calibration, refer to the Calibrating Your Analog Module section of this manual.

1. From the General dialog, click Calibration.

You see the Calibration dialog for a current or voltage output module, depending on the module type.



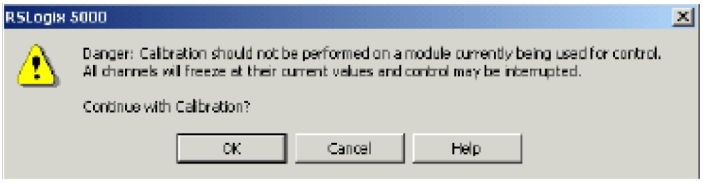
2. From the Calibration dialog, click one of these:

- In Groups
- One At a Time

3. From the Calibration dialog, check the Calibrate checkbox to specify which channel to calibrate.
4. From the Calibration dialog, click Start Calibration, which is active when:
   - the system is online, and
   - you selected at least one of the channels.

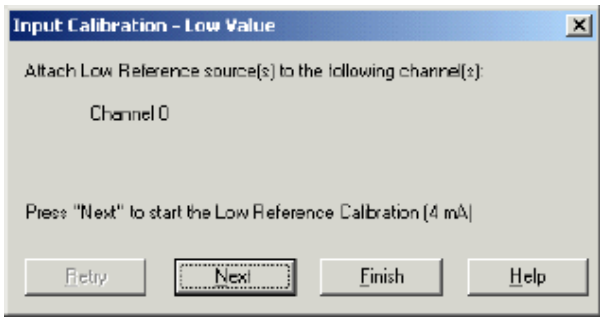
   Note that when you press the F1 button on your keyboard or click Help from the wizards and warning messages that appear during calibration you get detailed information about related procedures.

   You see a Danger dialog.



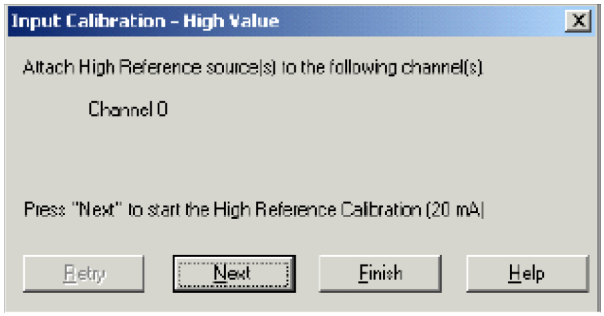
5. From the Danger dialog, for a module not currently used for control, click OK.

You see a Low Value dialog.

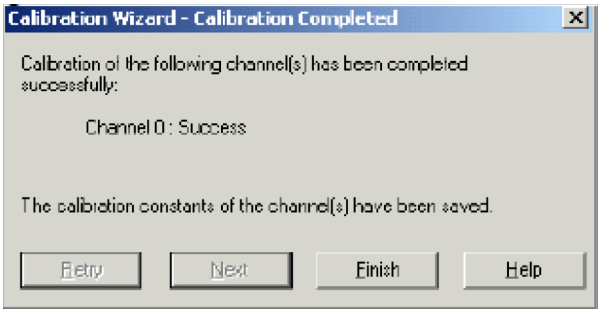


6. From the Low Value dialog, follow the instructions you see and click Next.

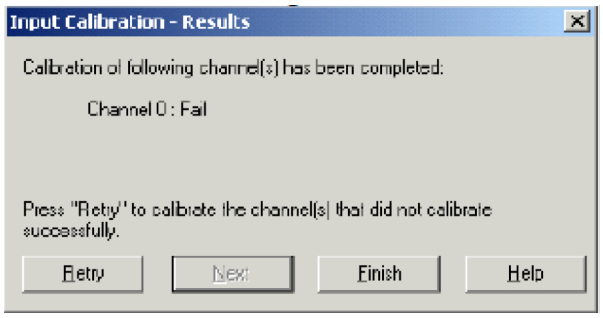
   You see the High Value dialog.



7. From the High Value dialog, follow the instructions you see and click Next to start calibration.
8. If calibration completes successfully, you see the Calibration Completed dialog.



If calibration fails, the Results dialog shows a failed calibration.



9. If calibration is successful, click Finish; otherwise, from the Results dialog, click Retry to calibrate the channel that did not calibrate successfully and repeat the process until calibration is successful.
10. Repeat calibration for each channel, if applicable.

Notes:

Configure POINT I/O Modules for DeviceNet Networks

About This Appendix

Read this appendix to learn how to configure POINT I/O modules in a DeviceNet network. If you are using a ControlNet, EtherNet/IP, or PROFIBUS network, refer to the appropriate manual.

- POINT I/O ControlNet Adapter User Manual, publication 1734-UM008
- POINT I/O EtherNet/IP Adapter User Manual, publication 1734-UM011
- POINT I/O PROFIBUS Adapter Module User Manual, publication 1734-UM005

Configuring POINT I/O Modules

To configure POINT I/O modules, use RSNetWorx software to identify the network and configure the I/O modules with electronic data sheet (EDS) files. To obtain EDS files for use in configuration, go to http://www.ab.com/networks/eds.

Commissioning a Node

Methods for commissioning nodes are the following:

- RSNetWorx commissioning pull-down
- Sequential Auto Addressing feature
- Third-party configuration software

Using the RSNetWorx Commissioning Tool

The RSNetWorx commissioning tool lets you commission devices (set the node address and the data rate parameters) that are either connected to a DeviceNet network or connected via a point-to-point connection.

The node commissioning tool works through RSLinx software; RSNetWorx software does not have to be online when performing the operation.

Before you can add any device to a DeviceNet network, you must commission it. This means you must program into the device a node address and data rate. Some devices are precommissioned, meaning a node address (usually set to 63) and a data rate (usually set to 125 Kbps) are programmed into the device at the factory prior to shipment. You need to commission other devices in the field. Once a

device has been commissioned and attached to a network, you can use the RSNetWorx for DeviceNet node commissioning tool to edit the node address and data rate that were set previously.

Exercise caution while editing node addresses when on a network. When you apply a new node address, it immediately overwrites the node address data in the device currently specified. If you decide to reassign node addresses, you should first determine the order in which this needs to be done so that all the devices still have unique node addresses when you finish.

For example, if two of the devices on your network are a photoelectric sensor and a hand controller and you accidentally change the node address of the hand controller to be the same as that of the photoelectric sensor, then the photoelectric sensor no longer has a unique address. This means it is not able to provide data to the scanner. If you cannot access a device, because you have used its node address for another device, you have to remove it from the network, recommission it, then reinstall it on the network.

ATTENTION: Do not change the data rate of devices while they are connected to a network. Erratic operation may result. We recommend that if you need to change the data rate of a device, you should remove it from the network, establish a point-to-point connection between the PC, which hosts the RSNetWorx for DeviceNet software, and the target device, recommission it, and then, reconnect it to the network.

Use Sequential Auto Addressing

Sequential Auto Addressing (SAA) reassigns the node address of every module to the right of the one you select on the POINTBus network. Each module changes its node address to one greater than its neighbor.

IMPORTANT Make sure the node address of the selected module is the desired value before issuing the SAA command.

When this command is set, each module to the right gets a new address one greater than its neighbor. The addressing ripples through a line of POINT I/O modules, assigning a node number to each module installed in a mounting base on the same POINTBus network.

Follow these steps to Auto Address a line of POINT I/O modules.

1. Set the address of the first module you want to address.
2. Set the Auto Address command to Sequential Address.

   All modules in line reset with new sequential addresses.

For example, assume you have five POINT I/O modules in a line, and the address of the first module is 10. After the Sequential Address command is sent to the first module, the node address of the line is 10, 11, 12, 13, and 14.

Using Third-party Configuration Software

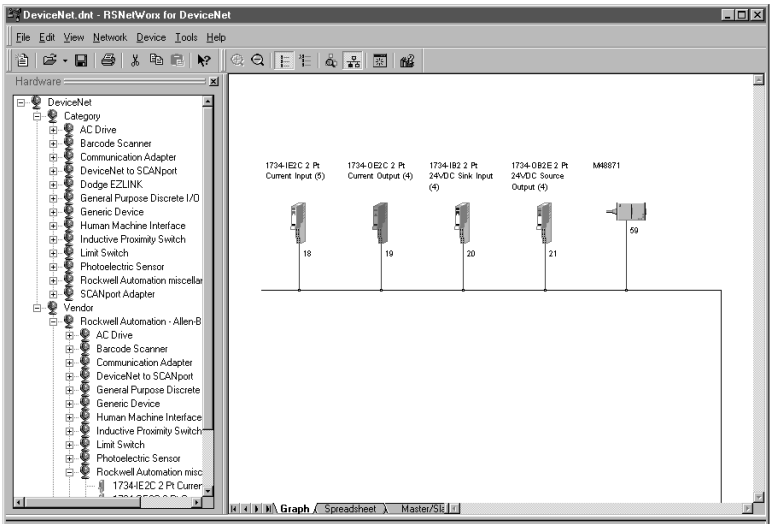
When using third-party configuration software, load the EDS files into the software and follow the designers instructions.

Configure Digital Modules Using RSNetWorx Software

To configure digital input modules, proceed as follows, noting that input modules use dialogs similar to the one for the 1734-IB4 modules used in this procedure.

1. Open your RSNetWorx for DeviceNet software.
2. Using the selections on the left, construct your system.

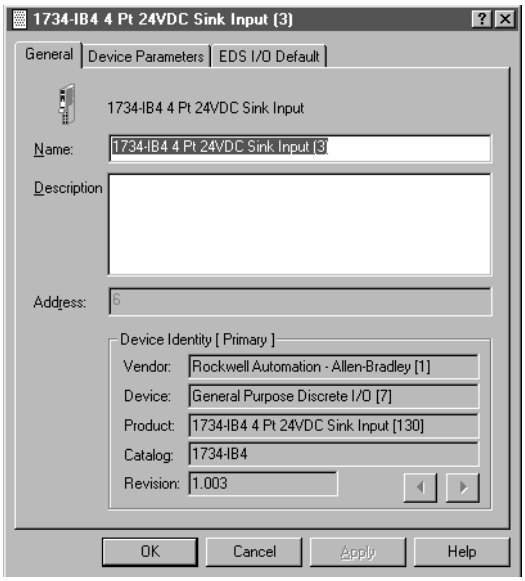
   If your network is up, click Browse.



3. After setting up your system, double-click the module you want to configure.

   If you are online, upload the configuration.

A dialog similar to the following appears.



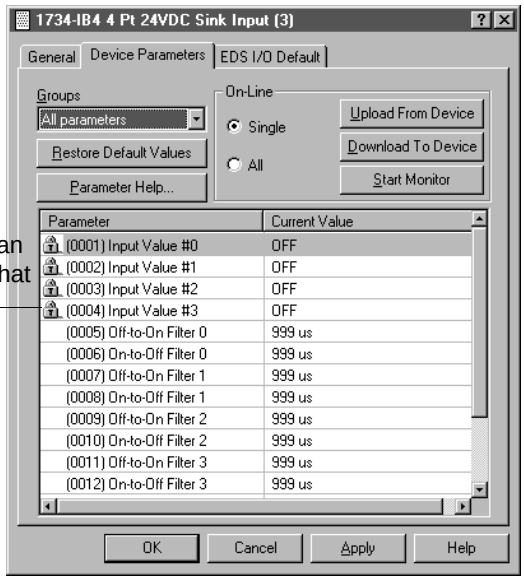
4. Click the Device Parameters tab to get to the dialog for setting the parameters.

Configure Input Modules

See the figure for a Device Parameters dialog for a 1734-IB4 input module example. All digital input modules have parameters similar to this example.

On this dialog, you see all the parameters for the module. These include filters, autobaud, sequential addressing, and communication rate(if not using autobaud).

If you see a lock next to an entry, you can't change that parameter.

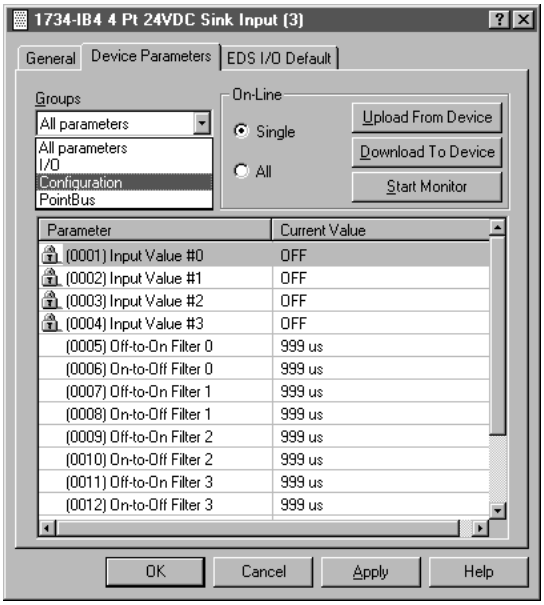


The Group's pull-down includes the following:

- All parameters
- I/O
- Configure
- POINTBus

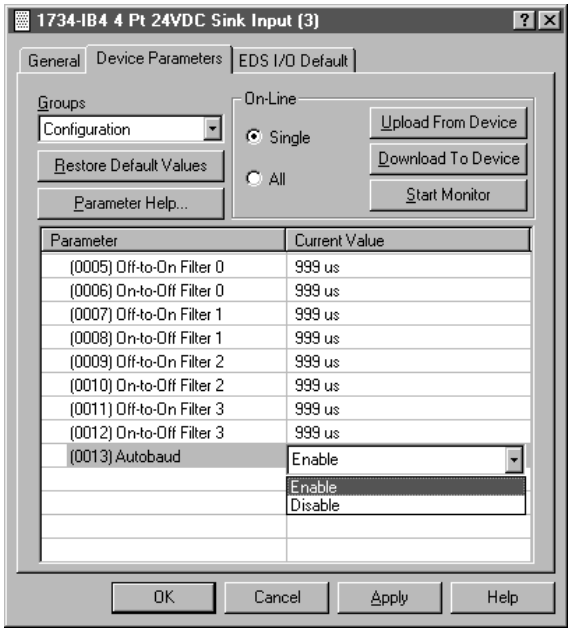
To complete entries from the Device Parameters dialog, use this procedure.

1. From the General Parameters dialog, at the groups list Select Configuration and the parameters you want.
2. From the Device Parameters dialog, select Single and change or configure parameters one at a time, or select All to change all selections at once.

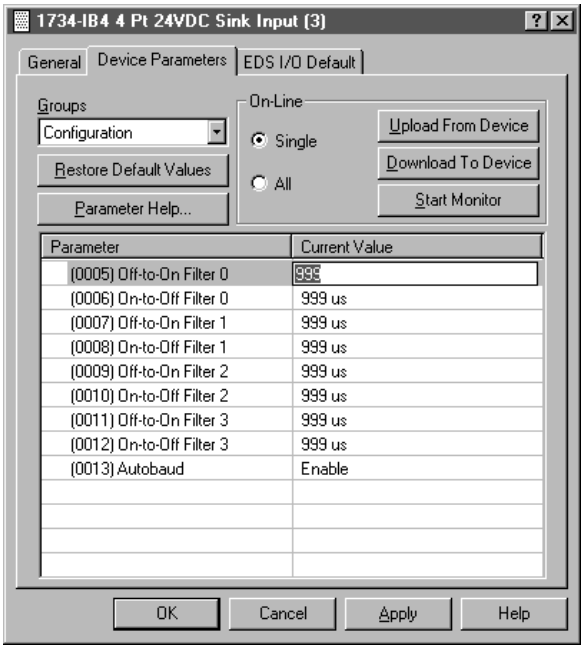


Note that if autobaud is selected, the communication rate of this module automatically matches the communication rate of the existing devices on

the network, and you are prevented from selecting a specific communication rate.



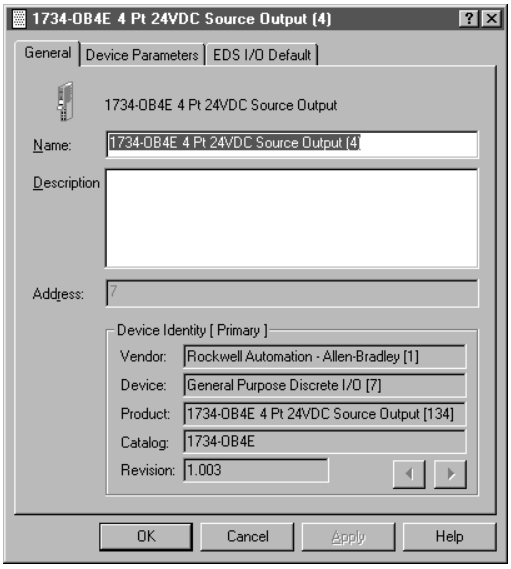
3. From the Device Parameters dialog, select the filter of your choice by selecting and typing in the filter time, noting that each input channel can have its own time selection.
4. From the Device Parameters dialog, click Download to Device.



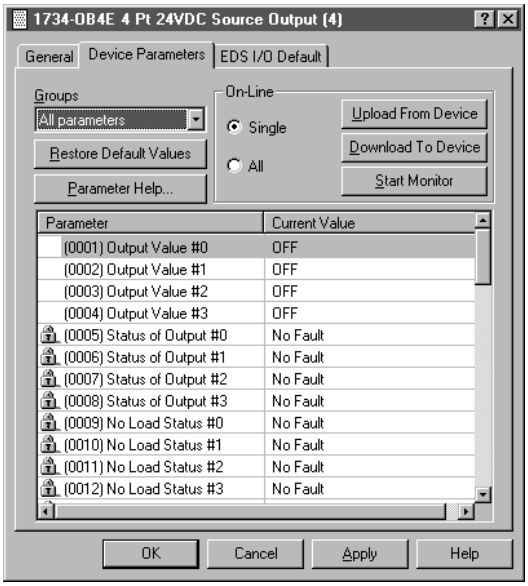
Configure Output Modules

To configure output modules, follow this procedure. Output modules use dialogs similar to the one for the 1734-OB4E output module used in this procedure.

1. From the General Parameters dialog, click Device Parameters to get the dialog for setting parameters.



2. From the Device Parameters dialog, set parameters for the module to include sequential addressing and autobaud or, if not using autobaud, communication rate.

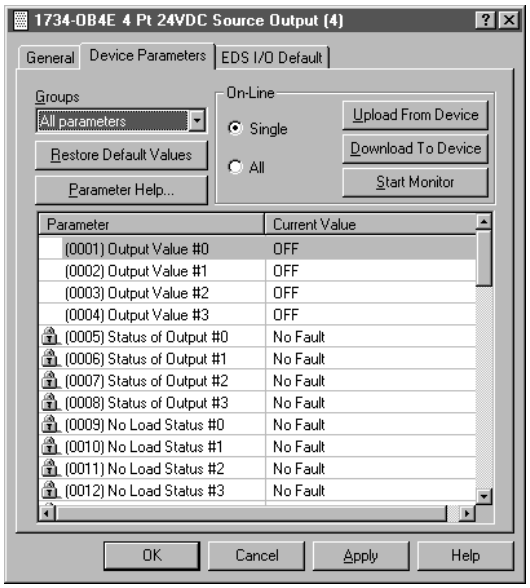


The Group's pull-down menu includes the following:

- All parameters
- I/O output value

- I/O output status
- Reset services
- POINTBus
- Configuration

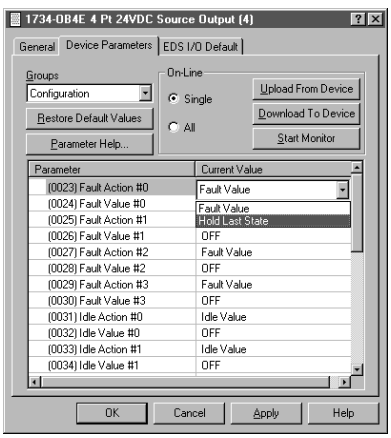
3. At the Groups pull-down menu, select Configuration and the parameters you want.

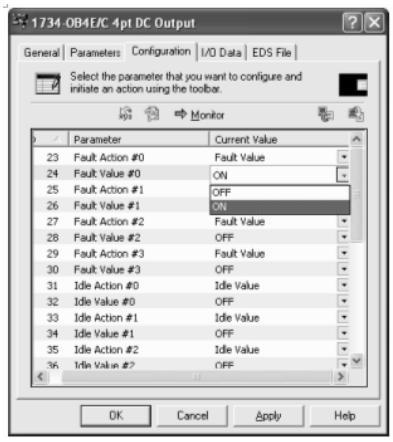


4. Select Single to change or configure parameters one at a time, or All to change all selections at once, noting that configurable parameters include the following:
   - Fault Value - Off/on
   - Fault Action - Fault value/hold last state
   - Idle Value - Off/on
   - Idle Action - Idle value/hold last state
   - Enable no load - No load enabled/no load disabled
   - Reset mode - Latch off/auto restart
   - Autobaud - Enable/disable

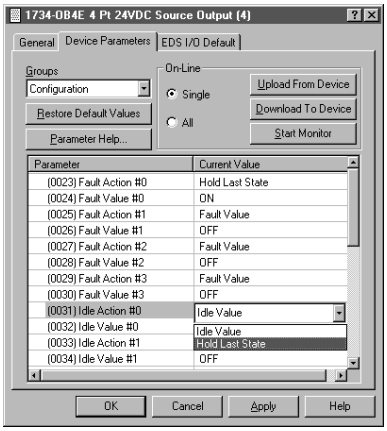
   Note that if autobaud is selected, the communication rate of this module automatically matches the communication rate of the existing devices on the network and you are locked out from selecting a communication rate.

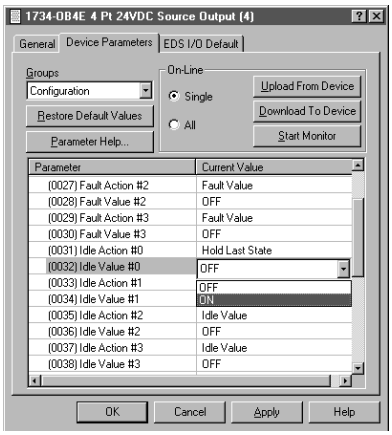
See the figures for dialogs for selecting Fault Action and Fault Value.



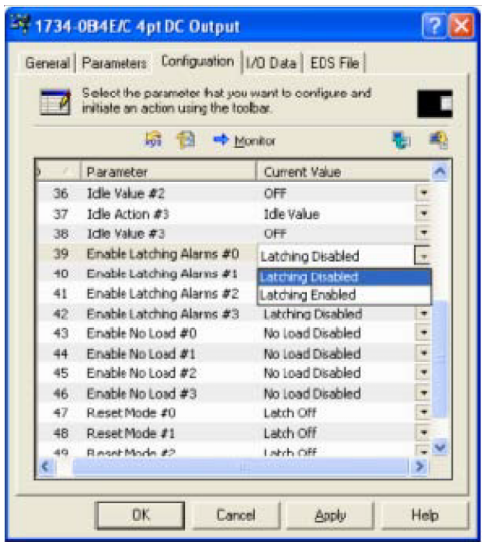


See the figure for a dialog for selecting Idle Action and Idle Value.

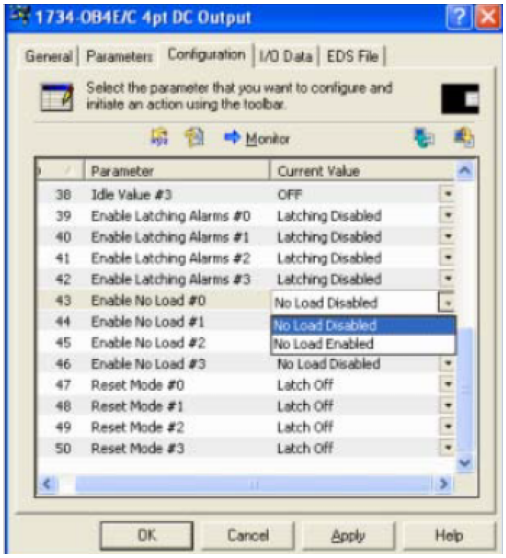




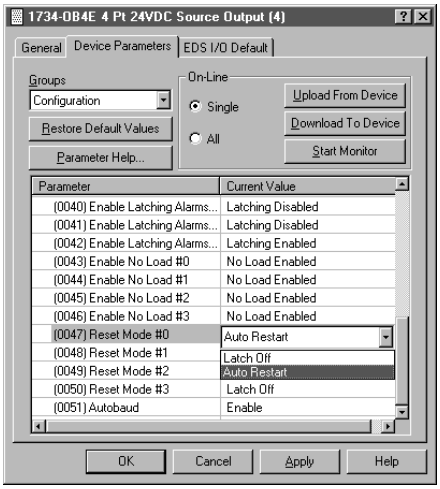
See the figure for a dialog for Latching Alarms parameter select.



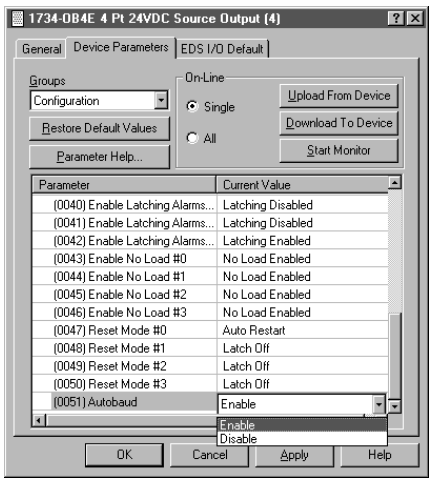
See the figure for a dialog for selecting Enable No Load.



See the figure for a dialog for selecting Reset Mode.



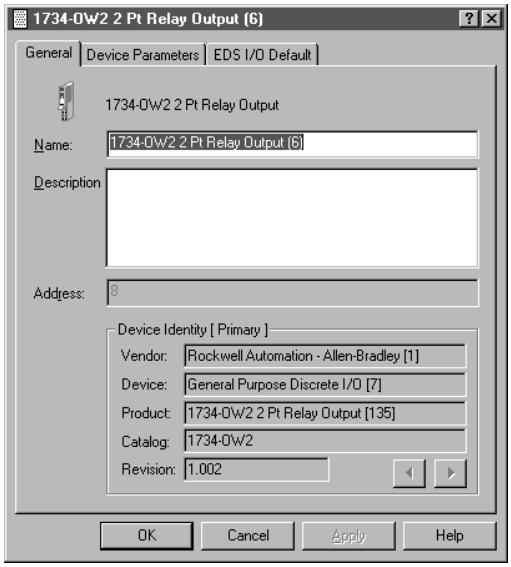
See the figure for a dialog for selecting autobaud.



5. From the Device Parameters dialog, click Download to Device.

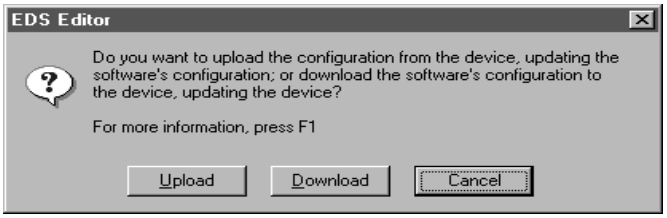
To configure the 1734-OW2 relay output module, use this procedure.

1. From the General dialog, click Device Parameters to get the dialog for setting parameters.

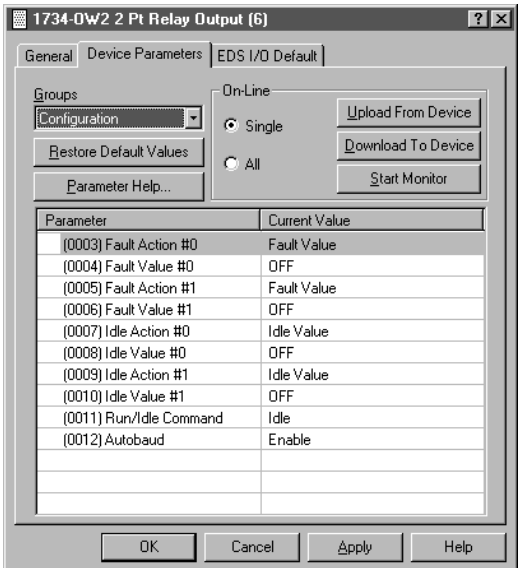


You see the EDS Editor.

2. From the EDS Editor, click Upload to load the latest information.



3. From the Device Parameters dialog, click Configuration to set the parameters for the module to include sequential addressing and autobaud, or, if not using autobaud, the communication rate.



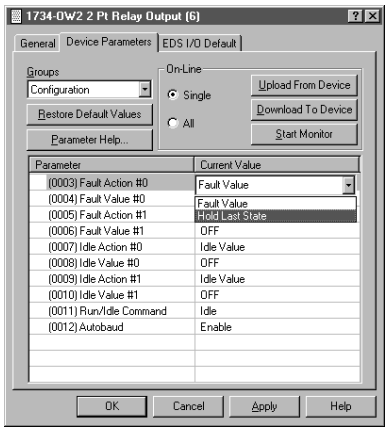
The Groups pull-down menu includes the following:

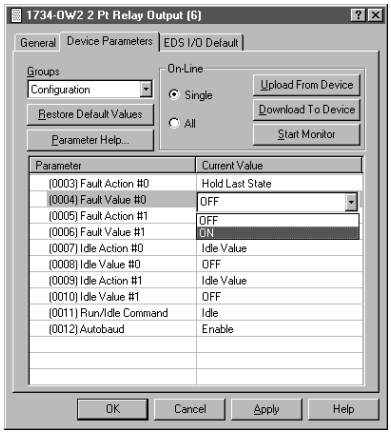
- All parameters
- I/O
- POINTBus
- Configuration - Select to set the paramters

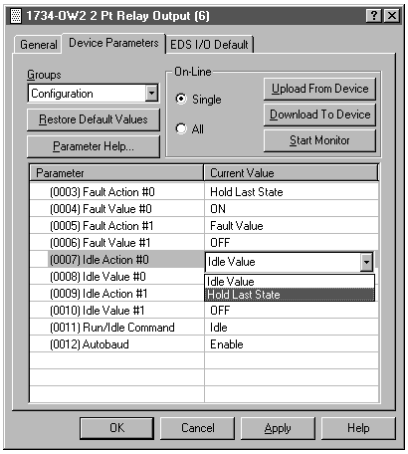
Note that configurable parameters include the following:

- Fault Action - Fault value/Hold Last State
- Fault Value - Off/On
- Idle Action - Idle value/Hold Last State
- Idle Value - Off/On
- Run/Idle Command - Idle/Run

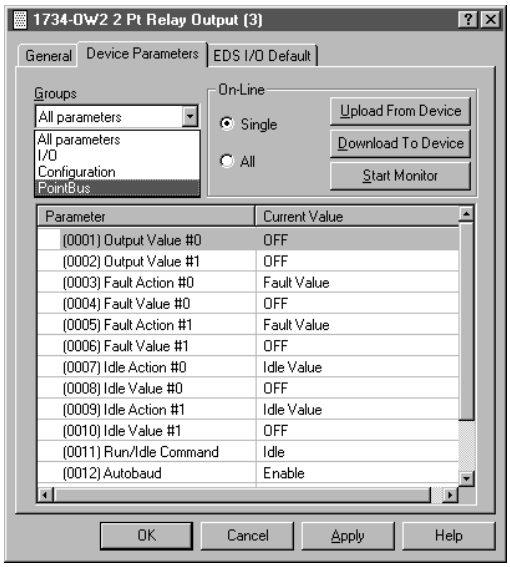
- Autobaud - Enable/Disable





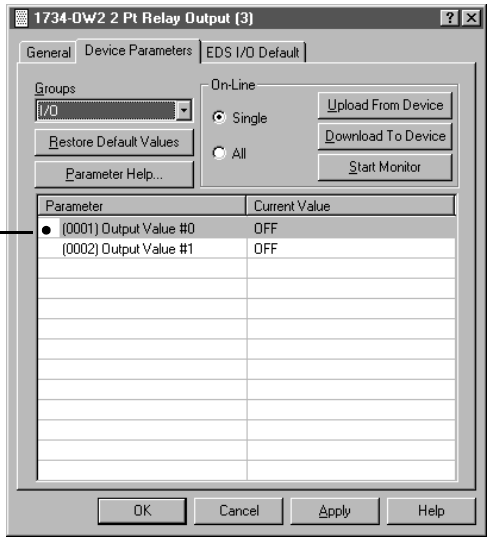


4. From the Device Parameters dialog, at Groups select All parameters to display each item and POINTBus to display only the run/idle command and autobaud.



5. From the Device Parameters dialog, to monitor the output, click Start Monitor, noting the following:
   - The output value is displayed for each scan.
   - Click All to scan all values.
   - The Start Monitor button turns to Stop Monitor during monitoring.
   - Click Stop Monitor to stop monitoring the selected parameters.
   - Identify monitoring by a ball appearing momentarily next to the selected item during each scan.

Monitoring is identified by the ball appearing momentarily next to the selected item during each scan.



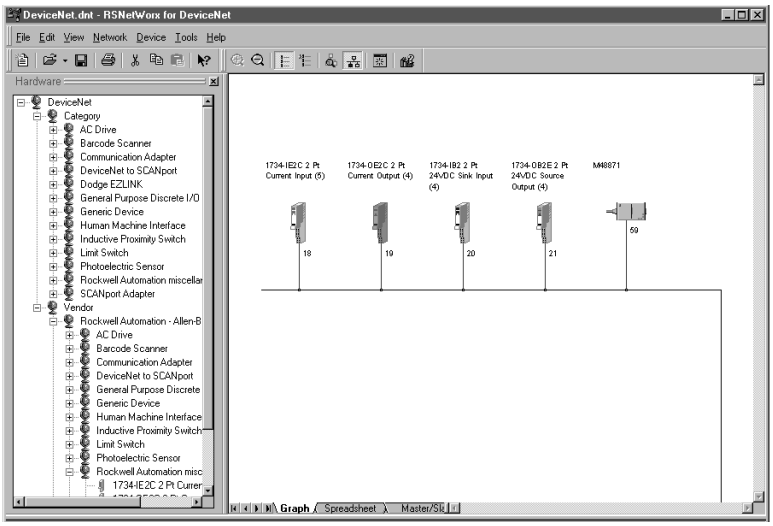
Configure Analog Modules Using RSNetWorx Software

Read this for a description of how to configure any analog module. The 1734-IE2C and 1734-OE2C modules in this procedure are representative of input and output analog modules. The actual dialogs for your particular module may not be identical to the ones shown here. To configure analog input modules, proceed as follows.

1. Open your RSNetWorx for DeviceNet software.

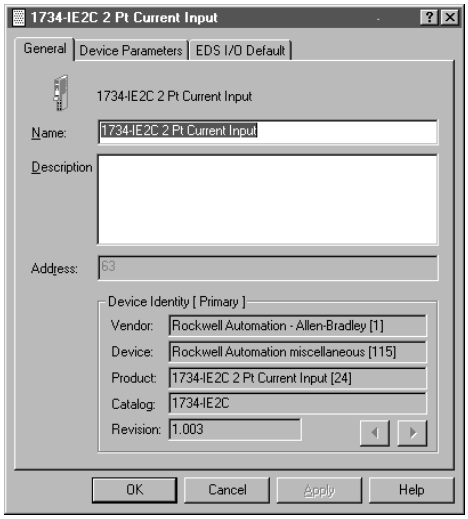
   You see the RSNetWorx for DeviceNet dialog.

2. From the RSNetworx for DeviceNet dialog, use the selections in the window on the left construct your system, or if your network is up, click Browse.



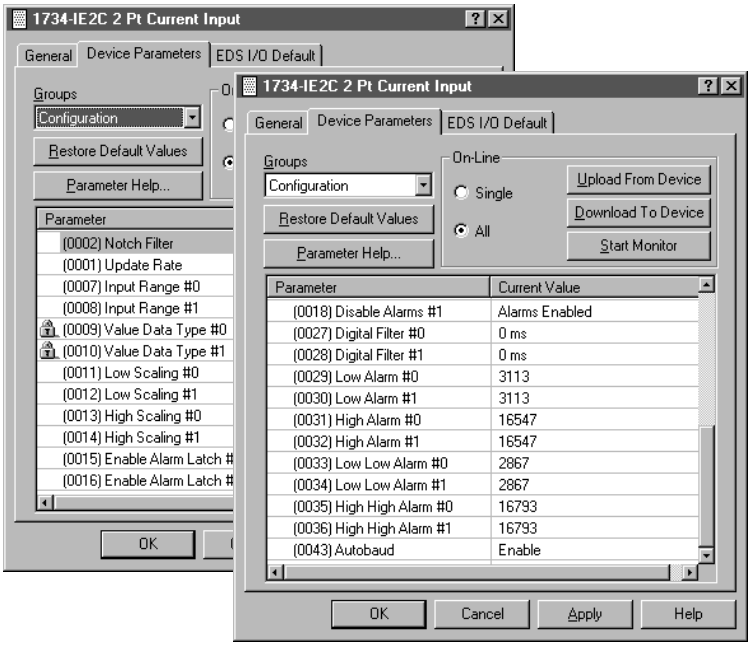
3. Double-click the graphic for the desired module to display the General dialog.

4. From the General dialog, click Device Parameters to see the dialog for setting parameters.



An EDS Editor dialog appears.

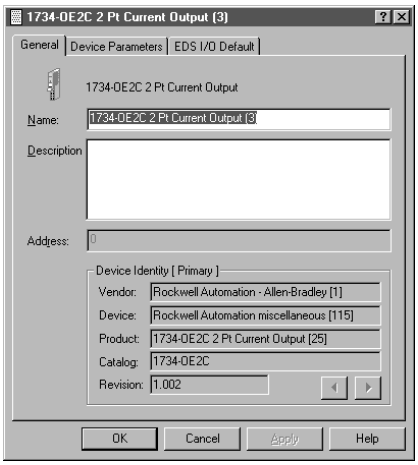
5. From the EDS Editor dialog, click Upload to upload existing parameters from the device.
6. From the Device Parameters dialog, at the Groups list select Configuration to select parameters.
7. Select Single to change or configure parameters one at a time or All to change all selections at once.
8. Change the configuration, or apply the uploaded parameters, noting that to change the parameters you must downlown to the device.



To configure the analog output module, use this procedure.

1. Double-click the icon.

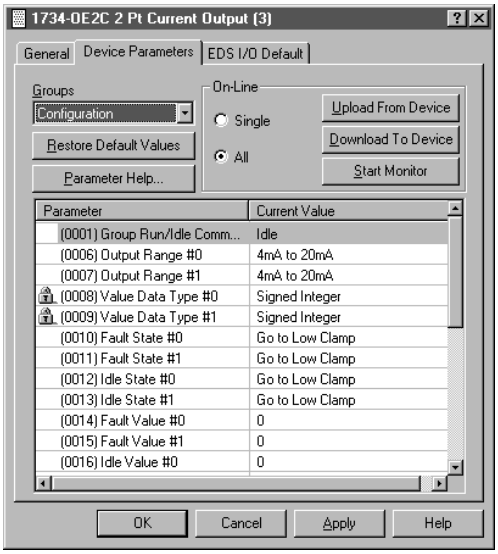
   The General dialog appears.



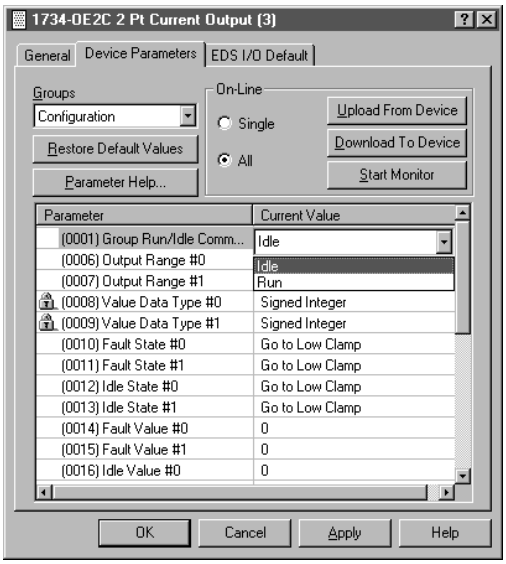
2. From the General dialog, click Device Parameters to set parameters.

   You see the EDS Editor dialog.

3. From the EDS Editor dialog, click Upload to upload existing parameters from the device.
4. From the Device Parameters dialog, from Groups select Configuration.



5. From the Device Parameters dialog, set Run or Idle, noting that any parameter with a lock indicated next to it is nonchangeable..



6. Select values for current or voltage.

   For current, click one of the following:

   - 4...20 mA
   - 0...20 mA

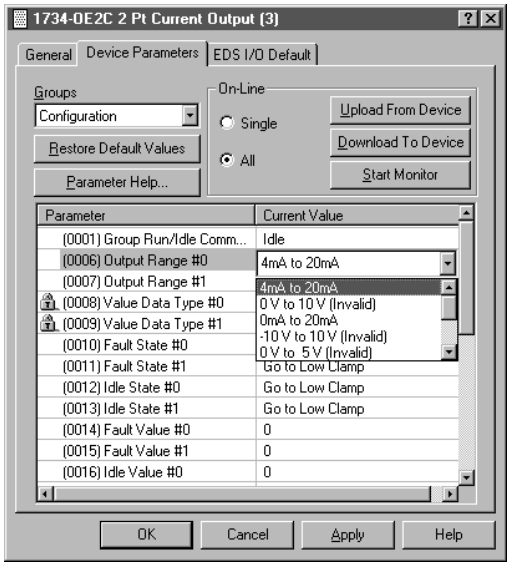
   For voltage, click one of the following:

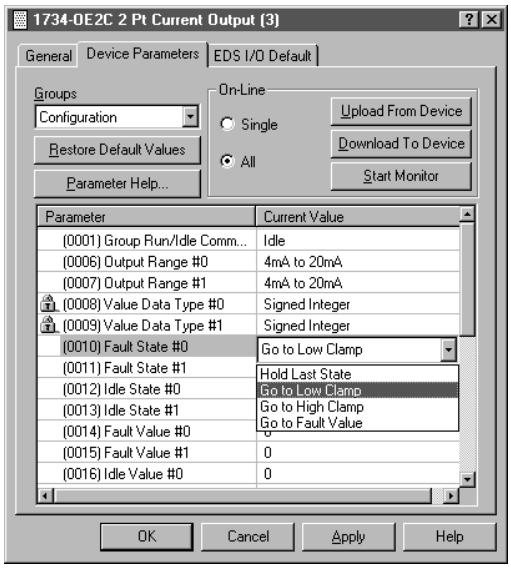
   - 0...10V
   - -10...+10V

   Note that fault states include the following:

   - Hold Last state
   - Go to Low Clamp
   - Go to High Clamp

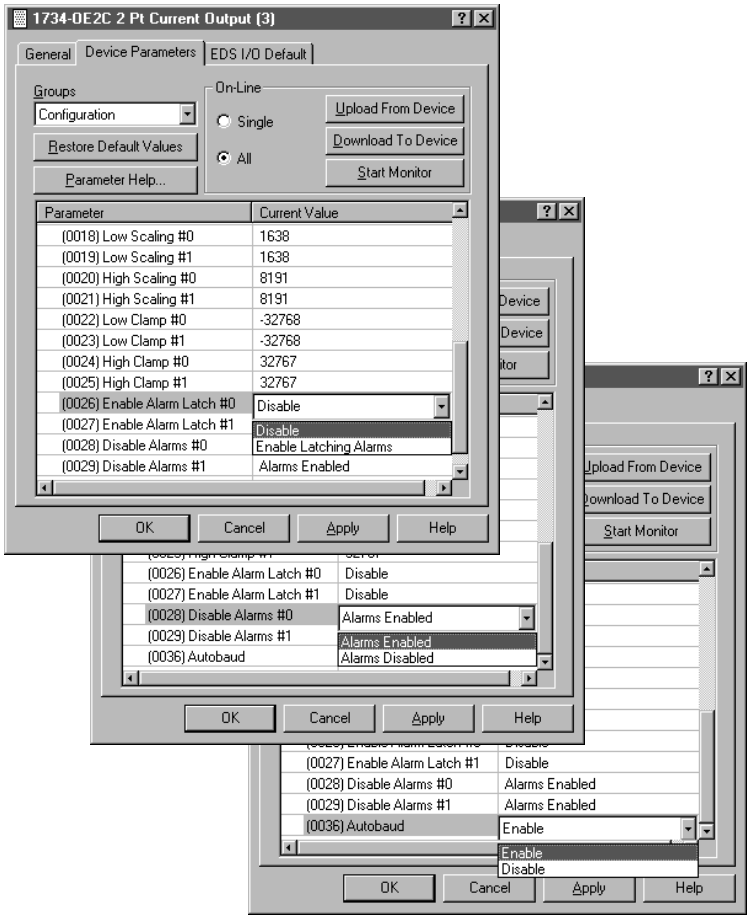
- Go to Fault Value





7. For Enable Alarm Latch, select Enable Latching Alarms or Disable.
8. For Disable Alarm, select Alarms Enabled or Alarms Disabled.
9. For Autobaud, select Enable or Disable.

With current or voltage modules if you change range values, note that it affects range or scaling of the module.



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Rockwell Automation Support

Rockwell Automation provides technical information on the Web to assist you in using its products. At http://www.rockwellautomation.com/support/, you can find technical manuals, a knowledge base of FAQs, technical and application notes, sample code and links to software service packs, and a MySupport feature that you can customize to make the best use of these tools.

For an additional level of technical phone support for installation, configuration, and troubleshooting, we offer TechConnect support programs. For more information, contact your local distributor or Rockwell Automation representative, or visit http://www.rockwellautomation.com/support/.

Installation Assistance

If you experience a problem within the first 24 hours of installation, review the information that is contained in this manual. You can contact Customer Support for initial help in getting your product up and running.

United States or Canada	1.440.646.3434
Outside United States or Canada	Use the Worldwide Locator at http://www.rockwellautomation.com/support/americas/phone_en.html, or contact your local Rockwell Automation representative.

New Product Satisfaction Return

Rockwell Automation tests all of its products to ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (call the phone number above to obtain one) to your distributor to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete this form, publication RA-DU002, available at http://www.rockwellautomation.com/literature/.

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