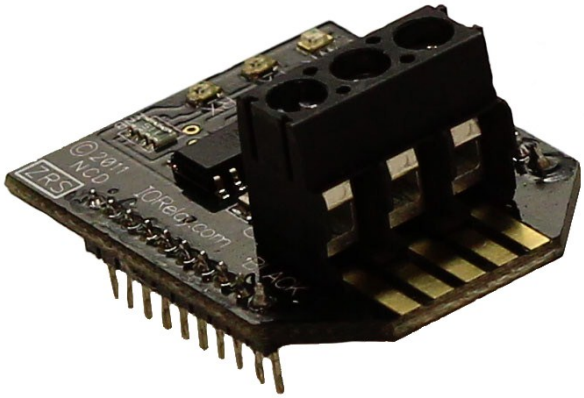
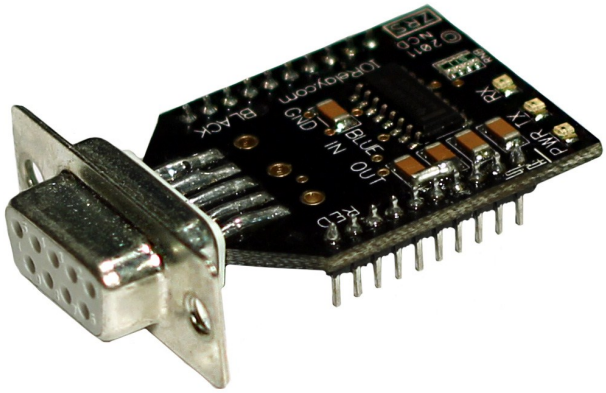
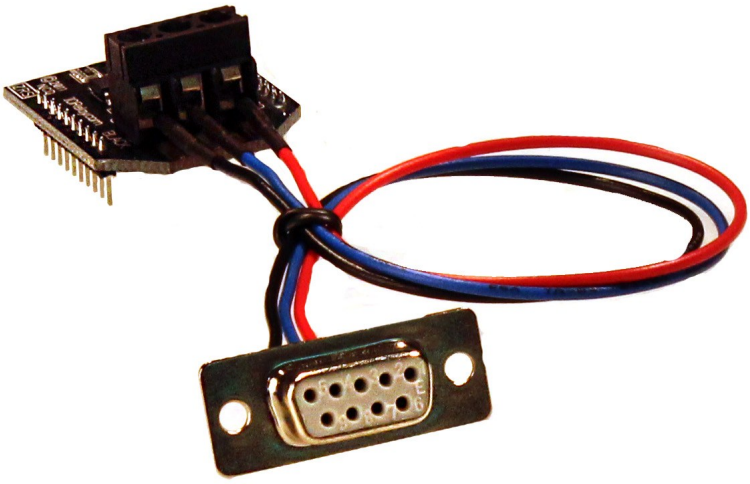
Quick Start Guide

RS-232 Serial

Serial Communications Module







NOTICE: Portions of this Manual REQUIRE Internet Access

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Getting Started

Things you will need

- A computer running Windows XP, Windows Vista, Windows 7, or any version of Linux. Note that we develop software for Windows operating systems so we advise having a Windows PC for initial testing.
- Serial Cable
- A device with Serial Interface
- Power Supply (Computer Grade 12v DC Regulated Power Supply is strongly recommended)

Additional things you will need if you DO NOT have a serial port on your computer

- Available USB Port on your computer
- USB Cable
- BAFO USB to Serial Adapter (other brands may be used, but this brand has been proven to work very well)

Things you will need to know

RS-232 Serial

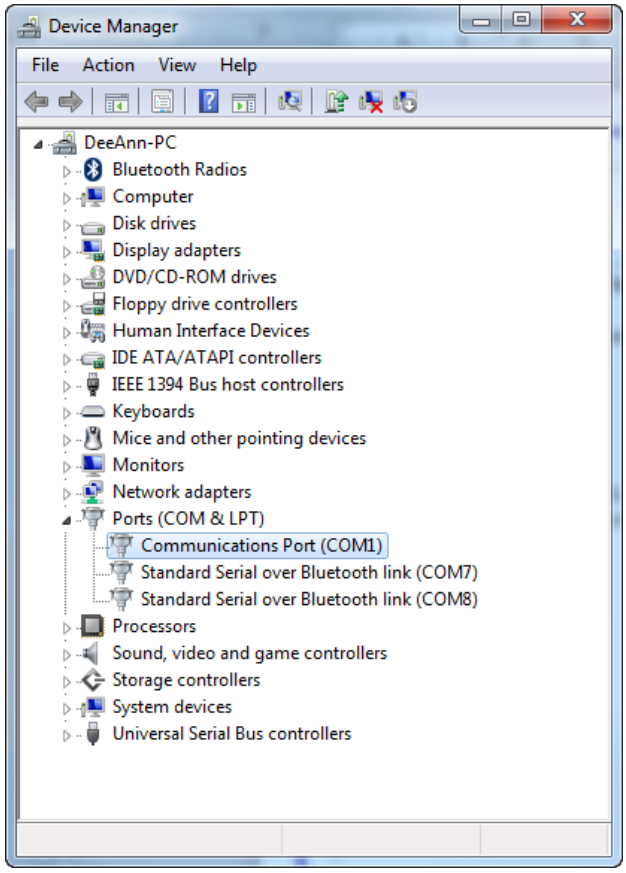
Series	Default Baud Rate	Baud Rate Change Method
ProXR Standard	38.4K	ProXR Software
ProXR Enhanced	57.6K	Base Software
Pro Series	9600	On Board Jumpers
R1x/R2x	9600	Fixed
Reactor	115.2K	Fixed
KeyFob	115.2K	Fixed
Taralist	115.2K	Fixed

Finding COM Ports

1. Virtual COM port drivers are required if using USB to Serial adapter. Window 7 typically recognizes the device without drivers. The latest drivers may be downloaded and installed from the following location:
   http://www.ftdichip.com/Drivers/VCP.htm
   This link also contains installation instructions appropriate to your operating system.

2. Navigate to your "Device Manager"
   - Go to the Start menu
   - Select "Control Panel"
   - Select "Device Manager"

3. Expand "Ports (COM & LPT)". You should see a COM port for RS-232 Serial built in to your computer or a Virtual COM port created by USB to Serial adapter. The screen shot below depicts the highlighted COM 1, in this case the available Serial Port.



Note: If you are using a serial cable to connect directly to your computer, then your computer will, of course, have a Serial Port built in. The Serial Port will usually appear as COM 1 up to COM 4. If your computer has a Serial chip, there can be many more available Serial Ports. Just be sure to remember the COM port to which your device is attached, as you will need it to access your device with our software.

Base Station

Base Station Software

When Base Station Software runs on your Windows computer, the software will identify the type of controller and will build a list of command sets that are compatible with your controller. These are the basic parts to the main Base software application:

1. **Device Identification and Documentation**: This button displays Read-Only information stored in the controller. It can help you identify the type of device that is connected and what its capabilities are. This portion of the software also builds a library of documents that will be helpful in using the controller it has identified. This library of documents will change depending on the type of device which has been identified.

2. **COMM Operator**: COMM Operator is a tool for testing and learning how to communicate with all Network and COM based devices. This manual may include command codes you can send to the device using COMM Operator. COMM Operator should be thought of as a terminal to send and receive bytes of data. COMM Operator was used extensively in the development of this device and should be referenced throughout the learning process. COMM Operator is a commercial product and is NOT Free. The 30-Day Evaluation version is provided and users may purchase a license for this software if they would like to continue use beyond 30 days.

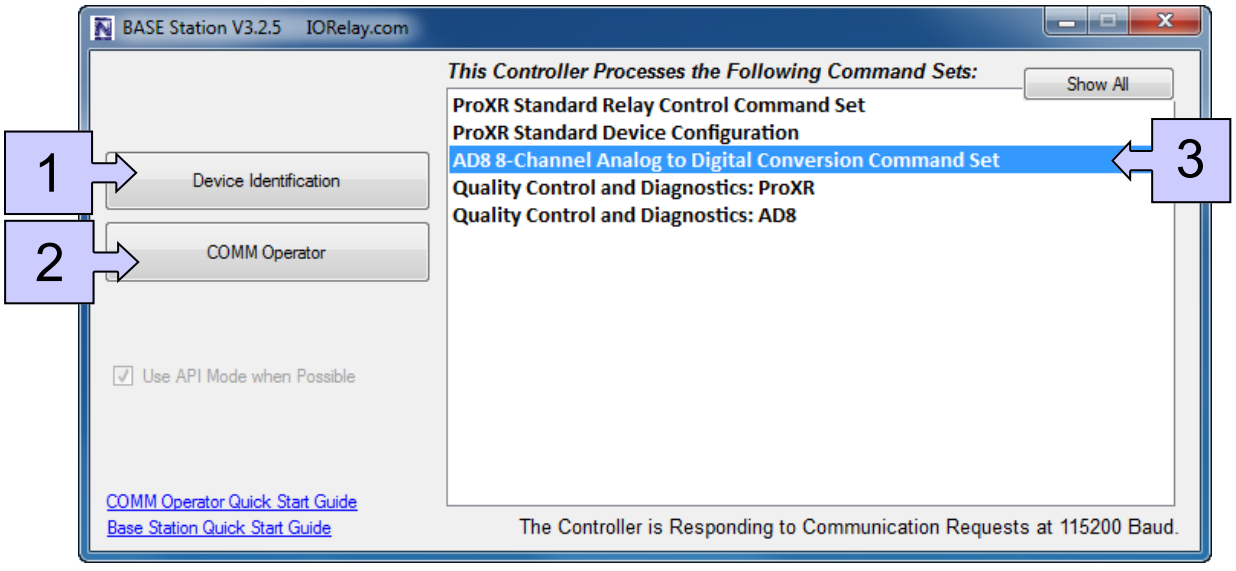
3. **Command Sets**: Each Device contains a set of commands that are identified by the Base Station software. Choose the command set you would like to explore in this box. Click one time on the command set you would like to explore.

Note: There may be more basic features depending on your device. Other features you may notice:

- **Device Configuration**: This button allows you to modify important device settings to help improve communication speed, functionality, and timing parameters of the device. Device Configuration is rarely used by the user

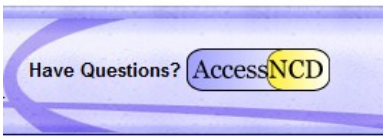
- **Display Command Set**: When working with Base software, many windows will display the actual command codes used to trigger a particular function. This option allows you to choose Decimal and Hex formats. This manual is shown in both Hex and Decimal format. Decimal is typically used in COMM Operator and is our preferred format, but Hex works great too.

- **Run Mode**: Run mode is used for daily operations and is the default mode of operation. To prevent accidental writes to non-volatile memory, the device must be placed in Configuration Mode to change EEPROM memory. Click this button anytime you need to change modes. Note that a jumper on the controller will force this device into Configuration mode. If a device is powered up in Configuration Mode and you are using a Web-i interface, the Web-i will boot in DHCP mode as a safeguard in case the device becomes inaccessible with a static IP address.



Technical Support

Technical support is available through our website, controlanything.com.
AccessNCD is the way we connect NCD engineers to our customers.
Click on the **AccessNCD** button located on the top right of the header of each page of our website.



For technical support and application information, contact Travis Elliott, our technical engineer. If you feel that you have discovered a bug in the firmware of our controllers, contact Ryan Sheldon, our hardware developer. If you have programming-related questions or have discovered a bug in our software, please contact Shirui Xu, our software engineer.

Click the '*Tech Support Staff*' tab and click on the appropriate engineer link for assistance. Click on our '*Forum*' tab if you would like to post publicly or review problems that other customers have had and our recommended solutions.

Our engineers monitor questions and respond continually throughout the day. Before requesting telephone technical support, we ask that customers please try to resolve their problems through **AccessNCD** first. However, for persistent problems, NCD technical support engineers will schedule a phone consultation.

Contact Information

National Control Devices, LLC
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Osceola, MO 64776
417-646-5644 phone
866-562-0406 fax
Open 9 a.m. - 4 p.m. CST

All orders *must* be placed online at our website, www.controlanything.com

Notice:
The only authorized resellers of NCD products are

- www.controlanything.com
- www.relaycontrollers.com
- www.relaypros.com
- www.amazon.com

All other websites are not authorized dealers; we have noticed some retailers offering our products fraudulently.