

GETTING STARTED



CHAPTER 1

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About This Manual

The Purpose of this Manual

This manual is written for the user of the Terminator I/O line of field bus termination I/O products. This manual shows you how to install and wire the equipment. It provides specifications for the input and output modules.

Supplemental Manuals

In addition to this manual, you will want to have the specific manual for your Terminator I/O Base Controller. In some cases you may need an additional manual such as the master PLC User Manual or perhaps the manual for the PC-based control software you may be using.

Technical Support

We strive to make our manuals the best in the industry. We rely on your feedback to let us know if we are reaching our goal. If you cannot find the solution to your particular application, or, if for any reason you need technical assistance, please call us at:

770-844-4200

Our technical support group will be pleased to work with you to answer your questions. They are available Monday through Friday from 9:00 A.M. to 6:00 P.M. Eastern Time. We also encourage you to visit our web site where you can find technical and non-technical information about our products and our company.

<http://www.automationdirect.com>

Conventions Used



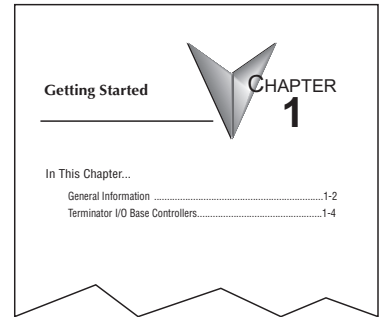
When you see the “notepad” icon in the left-hand margin, the paragraph to its immediate right will be a **special note**. The word **NOTE**: in boldface will mark the beginning of the text.



When you see the “exclamation mark” icon in the left-hand margin, the paragraph to its immediate right will be a warning. This information could prevent injury, loss of property, or even death (in extreme cases). The word **WARNING**: in boldface will mark the beginning of the text.

Key Topics for Each Chapter

The beginning of each chapter will list the key topics that can be found in that chapter.

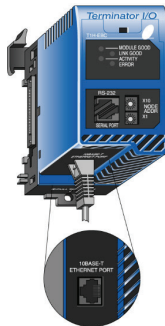


Terminator I/O Base Controllers

Terminator I/O offers five base controller modules. All modules include an on board RJ-12, RS-232C serial port.

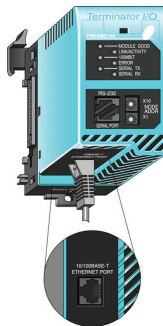
The five base controllers are:

- Ethernet Base Controller
 - T1H-EBC (discontinued)
 - T1H-EBC100
- DeviceNet Base Controller
 - T1K-DEVNETS
- Profibus™ DP Base Controller
 - T1H-PBC (discontinued)
- Modbus™ RTU Base Controller
 - T1K-MODBUS
- DirectLOGIC Remote I/O Base Controller
 - T1K-RSSS (discontinued)



T1H-EBC

(Discontinued)



T1H-EBC100



T1K-DEVNETS



T1H-PBC

(Discontinued)



T1K-MODBUS



T1K-RSSS

(Discontinued)

Terminator I/O System Components

Terminator I/O is a modular system which combines the functions of terminal blocks and I/O modules for distributed I/O. Each Terminator I/O system has the following components: a Power Supply, a Base Controller, and one or more I/O Module(s). Terminator I/O systems can contain up to 16 I/O modules per slave (node). Each slave (node) system can be divided into one row of base I/O plus two rows of local expansion I/O using a base expansion cable.

Power Supplies

120/240 VAC and 12/24 VDC power supplies are available. The AC version has a built-in 24VDC supply. A power supply must be the leftmost component in a slave system followed by the base controller. Additional power supplies should be added between I/O modules to meet power budget requirements.

I/O Modules

A Terminator I/O module assembly consists of an I/O module and a separate base, as shown below. A complete range of discrete modules which support 12/24 VDC, 110/220 VAC and up to 7A relay outputs is offered. The analog I/O modules provide 12-bit and 14-bit resolution and several selections of I/O signal ranges (including bipolar). The temperature input modules provide 16 bit resolution with several temperature input range selections. All Terminator I/O modules can be Hot Swapped (replaced) without removing system power (except for the base controller and power supply). Refer to the I/O Module Hot Swap section in Chapter 3 for details.

