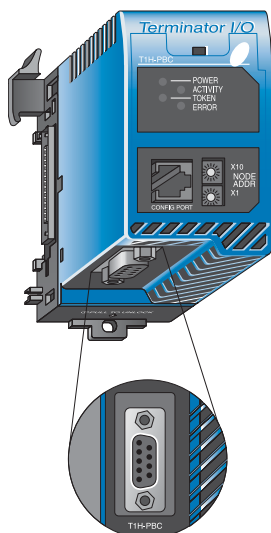




PROFIBUS SLAVE

T1H-PBC



1-800-633-0405 If you are using a Profibus controller network, the Terminator I/O sub-system will help further reduce the cost of your overall application. The T1H-PBC module allows the micro-modular Terminator I/O sub-system to be linked with a Profibus master controller. Profibus is a control bus that provides a common method to connect automation equipment with devices on a single network. This standard communications media is referred to as Profibus and significantly reduces hardwiring costs. Profibus provides specifications for information exchanged between nodes, such as controller data associated with low-level device and configuration parameters individually related to system operations.

Profibus allows 32 stations per segment. Segments vary in length depending on the desired transmission speed. The maximum speed is achieved on a segment 100 meters (327 feet) in length. Our Profibus DP Slave represents a single station. Repeaters also count as stations and are used to extend the network to greater distances. Our Profibus module supports baud rates of 9.6Kbaud to 12Mbaud depending on the network length.

Here's how it works:

The T1H-PBC module is a Profibus slave, which can be plugged into the network interface position of the Terminator I/O micro-modular family of I/O bases. This module reports all the identification data, diagnostic information, and parameters that control the module operation. The T1H-PBC module scans and reports all discrete and analog I/O data to a Profibus master. The externally-powered AC Terminator I/O base units contain a 24 VDC power supply for simple wiring of sensors and actuators into the Terminator I/O modules, and for controlling them with a Profibus master. Using our Profibus I/O sub-system will increase installation flexibility as well as save on wiring costs. The T1H-PBC module supports all Terminator discrete and analog I/O modules.

The T1H-PBC also offers the following features:

- **Cost-effective:** With a single network for devices, hardwiring costs are reduced.
- **Easy connectivity:** Low-cost installation is easy to implement and maintain.
- **Diagnostics:** The Profibus slave offers advanced error diagnostics not commonly available in traditional systems.
- **High baud rates:** Response time is 10ms per device
- **LED Indicators:** These provide quick indication of Terminator power and operating mode.

Note:

For use with Think & Do Software, we recommend the SST Profibus PCI Master Card, part number 5136-PFB-PCI. (*AutomationDirect* does not provide this interface). See www.mysst.com for more information.

Specifications	
Module Type	Profibus Network Interface Module
Max. Expansion	126 stations, 32 stations per segment, 9 repeaters in a row
Max. I/O Points per Controller	244 Input Bytes (analog or discrete) 244 Output Bytes (analog or discrete) as specified by the Profibus DP Specification
Communications	RS-485 Profibus, Profibus-DP Baud rate selectable from 9.6Kbaud to 12M baud.
Module Connectors	Profibus 9-pin D-shell, RJ-12 serial (for firmware update only)
Internal Power Consumption	530mA maximum at 5VDC (supplied by base power supply)
Operating Environment	0°C to 60°C (32°F to 140°F), 5% to 95% humidity (non-condensing)
Manufacturer	Host Automation Products



T1H-CTRIO

The
T1H-PBC supports the new
T1H-CTRIO High-speed Counter I/O
Module. See the DL205 H2-CTRIO module
section in this desk reference for information
on the CTRIO modules. Also check our web
site for the latest information on the
CTRIO modules.

FIELD / O



Technical drawing of the Profibus EN interface showing dimensions for horizontal and vertical cable entry. The drawing includes two views: a top view and a side view. The top view shows a rectangular interface with a width of 10.6 mm and a height of 9.5 mm. The side view shows a vertical profile with a total height of 30.6 mm and a base width of 29.6 mm. A horizontal entry cable is indicated by a blue arrow pointing to the left side of the interface. A vertical entry cable is indicated by a blue arrow pointing to the top of the interface. The interface is labeled 'Profibus EN'.

ERNI ER*b*ic connectors for Profibus networks

Connectors are available for the Profibus Base Controller. They are available in standard node and standard termination styles with vertical cable entry for Terminator I/O.

ERNI ERbic Connectors		
Part No.	Description	Device
103658	Profibus certified standard node vertical connector. 9-pin male D-sub	Terminator I/O T1H-PBC or any Profibus ISA/ PCI Personal Computer Master/Slave Card
103659	Profibus certified standard termination vertical connector .9-pin male D-sub	Terminator I/O T1H-PBC or any Profibus ISA/ PCI Personal Computer Master/Slave Card

Universal Field I/O



DIMENSIONS AND INSTALLATION

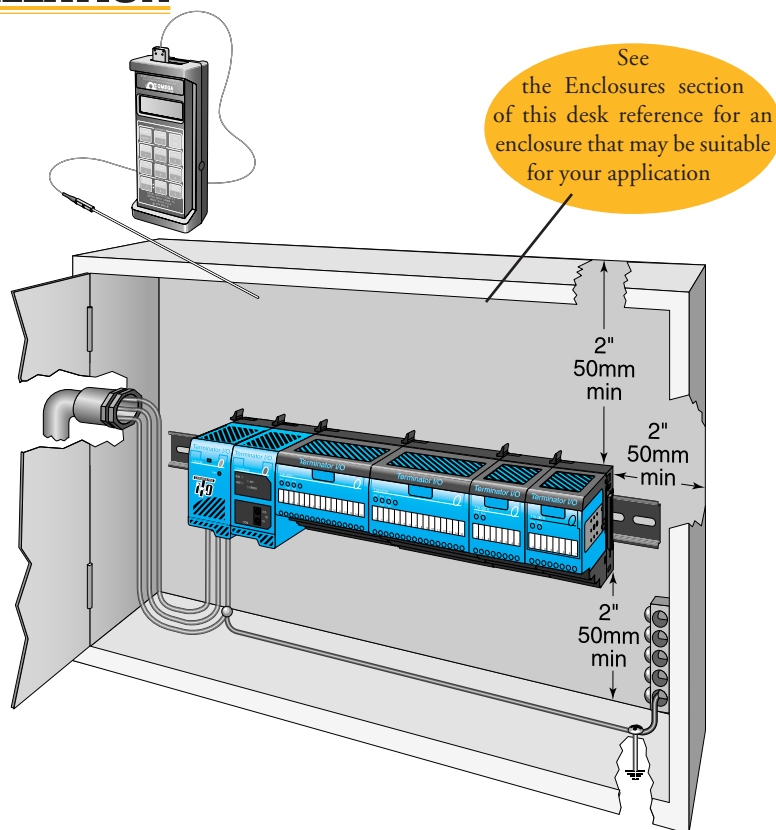
It is important to understand the installation requirements for your Terminator I/O system. This will help ensure that the Terminator I/O products work within their environmental and electrical limits.

Plan for safety

This catalog should never be used as a replacement for the technical data sheet that comes with the products or the T1K-INST-M Installation and I/O Manual (It is also available online at www.automation-direct.com.) The technical data sheet contains information that must be followed. The system installation should comply with all appropriate electrical codes and standards.

Unit dimensions and mounting orientation

Use the following diagrams to make sure the Terminator I/O system can be installed in your application. Terminator I/O units can be mounted horizontally or vertically. However, to insure proper airflow for cooling purposes, units should not be mounted upside-down. It is important to check the Terminator I/O dimensions against the conditions required for your application. For example, it is recommended to leave 2" depth for ease of access and cable clearance. However, your distance may be greater or less. Also, check the installation guidelines for the recommended cabinet clearances.



Terminator I/O Environmental Specifications	
Ambient Operating Temperature	32°F to 131°F (0°C to 55°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Ambient Humidity	5% to 95% (Non-condensing)
Atmosphere	No corrosive gases. The level of environmental pollution = 2 (UL 840)
Vibration Resistance	MIL STD 810C, Method 514.2
Shock Resistance	MIL STD 810C, Method 516.2
Voltage Withstand (Dielectric)	1500VAC, 1 minute
Insulation Resistance	500VDC, 10M ohm
Noise Immunity	NEMA ICS3-304 Impulse noise 1us, 1000V FCC class A RFI (144MHz, 430MHz 10W, 10cm)
Agency Approvals	UL, CE, FCC class A, NEC Class 1 Division 2

