Enhanced PLC-5 controllers

Features

- *configurable ports for DH+ or Universal remote I/O*
- *configurable RS-232, 422, 423A serial port*
- *advanced instruction set*
- *multiple main control programs*
- *processor input interrupts*
- *selectable timed interrupts*
- *global status flags*
- *programmable fault response*
- *hot backup support*

Every PLC-5 controller offers built-in, configurable ports for Data Highway Plus (DH+) or Universal Remote I/O. A DH+ connection supports remote programming and information access, in addition to peer-to-peer communication between the PLC-5, other controllers and devices. A Universal Remote I/O connection supports real-time data exchange for I/O, operator interface, and other third-party devices.

Enhanced PLC-5 controllers

Controller	Maximum User Memory (words)	Total I/O Maximum	Channels
PLC-5/11 (1785-L11B)	8K	512 any mix **or** 384 in + 384 out (complement)	1 DH+/remote I/O
PLC-5/20 (1785-L20B)	16K	512 any mix **or** 512 in + 512 out (complement)	1 DH+ 1 DH+/remote I/O
PLC-5/30 (1785-L30B)	32K	1024 any mix **or** 1024 in + 1024 out (complement)	2 DH+/remote I/O
PLC-5/40 (1785-L40B)	48K	2048 any mix **or** 2048 in + 2048 out (complement)	4 DH+/remote I/O
PLC-5/60 (1785-L60B)	64K	3072 any mix **or** 3072 in + 3072 out (complement)	4 DH+/remote I/O
PLC-5/80 (1785-L80B)	100K	3072 any mix **or** 3072 in + 3072 out (complement)	4 DH+/remote I/O

You can add the 1785-ENET sidecar module to any enhanced PLC-5 controller to provide TCP/IP Ethernet connectivity. For more information, see page 15.

Ethernet PLC-5 controllers

Features

- *high-bandwidth computer and controller communications via TCP/IP Ethernet*
- *plus the features of the Enhanced PLC-5 controllers*
- *access product information via Internet and web browser or Human Machine Interface software*

The Ethernet PLC-5 controller integrates the Allen-Bradley architecture into an industry-standard EtherNet/IP system, offering a flexible and open solution.

With the Ethernet PLC-5 controller's built-in communication capabilities, your entire enterprise can use standard Ethernet or Internet connectivity to control and monitor production. Using the Internet and web browser, you can create your own custom web pages to provide executive summaries of process information. These pages are accessible to any Internet user who has network access to the PLC-5 processor. The embedded web server provides access to PLC-5 diagnostics. Domain Name Service (DNS) and Simple Network Management Protocol (SNMP) are also supported.

Ethernet PLC-5 controllers

Controller	Maximum User Memory (words)	Total I/O Maximum	Channels
PLC-5/20E (1785-L20E)	16K	512 any mix **or** 512 in + 512 out (complement)	1 Ethernet 1DH+ 1 DH+/remote I/O
PLC-5/40E (1785-L40E)	48K	2048 any mix **or** 2048 in + 2048 out (complement)	1 Ethernet 2 DH+/remote I/O
PLC-5/80E (1785-L80E)	100K	3072 any mix **or** 3072 in + 3072 out (complement)	1 Ethernet 2 DH+/remote I/O

PLC-5 Ethernet Interface Module

Features

- *adds Ethernet functionality to any Enhanced PLC-5 controller*
- *high-bandwidth computer and controller communications via TCP/IP Ethernet*

The PLC-5 Ethernet Interface Module (1785-ENET) is a single-slot module that attaches to the side of any Enhanced PLC-5 series B or later controller, Ethernet PLC-5 controller, or ControlNet PLC-5 controller to provide additional Ethernet connectivity.

When a 1785-ENET module is used with:	The interface module provides:
Enhanced PLC-5 controller	Ethernet connectivity without sacrificing DH+ or Universal Remote I/O ports
Ethernet PLC-5 controller	additional Ethernet connectivity by supporting dual Ethernet links
ControlNet PLC-5 controller	dedicated Ethernet connectivity for plant and office integration

Using the Ethernet Interface Module's built-in communication capabilities, your entire enterprise can use standard Ethernet or Internet connectivity to control and monitor production. Using the Internet and web browser, you can create your own custom web pages to provide executive summaries of process information. These pages are accessible to any Internet user who has network access to the PLC-5 processor. The embedded web server provides access to PLC-5 diagnostics. Domain Name Service (DNS) and Simple Network Management Protocol (SNMP) are also supported.

ControlNet PLC-5 controllers

Features

- *high-speed communication through a ControlNet port*
- *redundant media options*
- *hot backup option*
- *plus the features of the Enhanced PLC-5 controllers*

The ControlNet PLC-5 controller offers embedded ControlNet communication capabilities for control and information processing. The ControlNet network provides both I/O control and peer-to-peer communications on a 5Mbps network, with repeatability and determinism.

You can have multiple ControlNet PLC-5 controllers on one ControlNet network, with each controller handling its own I/O on the network, and at the same time communicating with each other. Multiple controllers can receive input data from one I/O or device node.

ControlNet PLC-5 controllers

Controller	Maximum User Memory (words)	Total I/O Maximum	Channels
PLC-5/20C (1785-L20C15)	16K	512 any mix **or** 512 in + 512 out (complement)	1 ControlNet 1 DH+ 1 DH+/remote I/O
PLC-5/40C (1785-L40C15)	48K	2048 any mix **or** 2048 in + 2048 out (complement)	1 ControlNet 2 DH+/remote I/O
PLC-5/80C (1785-L80C15)	100K	3072 any mix **or** 3072 in + 3072 out (complement)	1 ControlNet 2 DH+/remote I/O

A ControlNet backup module provides backup of ControlNet I/O. For details, see page 33.