



P485 Modbus to Profibus Converter

Product Release Notes

GE Publication Number: GER-4074

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Overview

Summary

- Affected products: P485 Modbus to Profibus Converter
- Date of release: November 2, 2005
- Firmware revision: 1.20
- Boot code revision: 1.23
- Manual revision: GEK-113190

Release summary

This release note covers the new P485 Modbus to Profibus Converter version 1.20 release. The P485 Modbus to Profibus Converter (or P485) acts as a gateway between the Modbus protocol and a Profibus-DP network. The P485 facilitates integration of GE Multilin relays and meters to Profibus networks without loss of functionality, control and reliability, both when retrofitting to existing equipment as well as setting up new installations.

GE Multilin technical support

GE Multilin contact information and call center for product support is shown below:

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Home Page: <http://www.GEmultilin.com>

Release details

New features

General features

The P485 is CE, UL, and cUL certified and can be mounted on DIN rail. It can be powered by a 24 V DC power supply. The device configuration can be loaded in flash memory. The P485 can be configured and IO data monitored via the no-charge Enervista P485/D485 Setup software. Refer to the P485 instruction manual (publication number GEK-113190) for additional information.

Profibus network features

The P485 meets IEC 61158 Profibus-DP slave functionality. It can be set with node addresses from 1 to 99 using on-board rotary switches. The P485 supports automatic baud rate detection from 9.6 kbps to 12Mbps and supports RS485 transmission technology for Profibus networks. Up to 244 bytes of input data and 244 bytes of output data (total IO size not exceeding 416 bytes) can be configured. Refer to the P485 instruction manual (publication number GEK-113190) for additional information.

Modbus network features

The P485 supports RS232, RS485, and RS422 connections for Modbus communication. GE Multilin relays and meters can be connected in single-drop or multi-drop configurations. The P485 supports up to 50 commands in configuration. Refer to the P485 instruction manual (publication number GEK-113190) for additional information.

Device information

Device details such as firmware version, module software version, boot loader versions and Enervista P485/D485 software version can be obtained from the P485 setup software.

Configuration cable

A P485/D485 configuration cable (catalog number: PDCable) is required to connect the PC to the P485 for configuration and monitoring through the Enervista P485/D485 Setup software. This cable is an accessory to the P485 and is available at GE Multilin online store.

Enervista P485/D485 Setup software

With the Enervista P485/D485 setup software running on your PC, it is possible to:

- Configure the P485
- Monitor the Modbus network data
- Save the configuration file
- Upload/download configuration from/to the P485
- Get help on any topic

The Enervista P485/D485 setup software allows immediate access to all the features of the P485 through pull-down menus in the familiar Windows environment. The software can also run without a P485 connected. This allows you to edit and save configuration files for later use. If a P485 is connected to a serial port on a computer and communication is enabled, the P485 can be configured and downloaded to the P485. In addition, Modbus network monitor can be enabled to view the device IO data.

Software and firmware information

Filenames and locations

- GSD file location: <http://www.GEindustrial.com/multilin/software/P485>
- GSD file name: P48509E5.GSD
- Setup program file location: <http://www.GEindustrial.com/multilin/software/P485>
- Setup program file name: P485_D485_setup.exe

PC software upgrade procedure

Download and install the latest Enervista P485/D485 Setup installation file from <http://www.GEindustrial.com/multilin/software/P485>.