## GE Consumer & Industrial

# D485 Modbus to DeviceNet Converter

## Product Release Notes

### GE Publication Number: GER-4073

# Overview

## Summary

- Affected products: D485 Modbus to DeviceNet Converter
- Date of release: November 2, 2005
- Firmware revision: 1.36
- Boot code revision: 1.23
- Manual revision: GEK-113195

## Release summary

This release note covers the new D485 Modbus to DeviceNet Converter version 1.36 release. The D485 Modbus to DeviceNet Converter (or D485) acts as a gateway between the Modbus protocol and a DeviceNet network. The D485 facilitates integration of GE Multilin relays and meters to DeviceNet 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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Markham, Ontario
Canada   L6E 1B3

Telephone: 905-294-6222 or 1-800-547-8629 (North America), +34 94 485 88 00 (Europe)
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E-mail: multilin.tech@ge.com
Home Page: http://www.GEmultilin.com

# Release details

## New features

### General features

The D485 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 D485 can be configured and IO data monitored via the no-charge Enervista P485/D485 Setup software. Refer to the D485 instruction manual (publication number GEK-113195) for additional information.

### DeviceNet network features

The D485 Modbus to DeviceNet Converter meets DeviceNet adapter Profile number 12 Group 2 only server functionality. The D485 can be set with a MAC address of 0 to 63 and three baud rates: 125, 250, and 500 kbps using on board DIP switches. The D485 supports CAN network transmission technology for DeviceNet networks. Up to 512 bytes of input data and 512 bytes of output data can be configured. The D485 supports Polling, Change of State (COS), and Bit Strobe IO messaging as well as explicit messaging. Refer to the D485 instruction manual (publication number GEK-113195) for additional information.

### Modbus network features

The D485 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 D485 supports up to 50 commands in configuration. Refer to the D485 instruction manual (publication number GEK-113195) 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 D485 setup software.

### Configuration cable

A P485/D485 configuration cable (catalog number: PDCable) is required to connect the PC to the D485 for configuration and monitoring through the Enervista P485/D485 Setup software. This cable is an accessory to the D485 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 D485
- Monitor the Modbus network data
- Save the configuration file
- Upload/download configuration from/to D485
- Get help on any topic

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

## Software and firmware information

**Filenames and locations**

- EDS file location: http://www.GEindustrial.com/multilin/software/D485

- EDS file name: D485EDS.zip

- Setup program file location: http://www.GEindustrial.com/multilin/software/D485

- 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/D485.