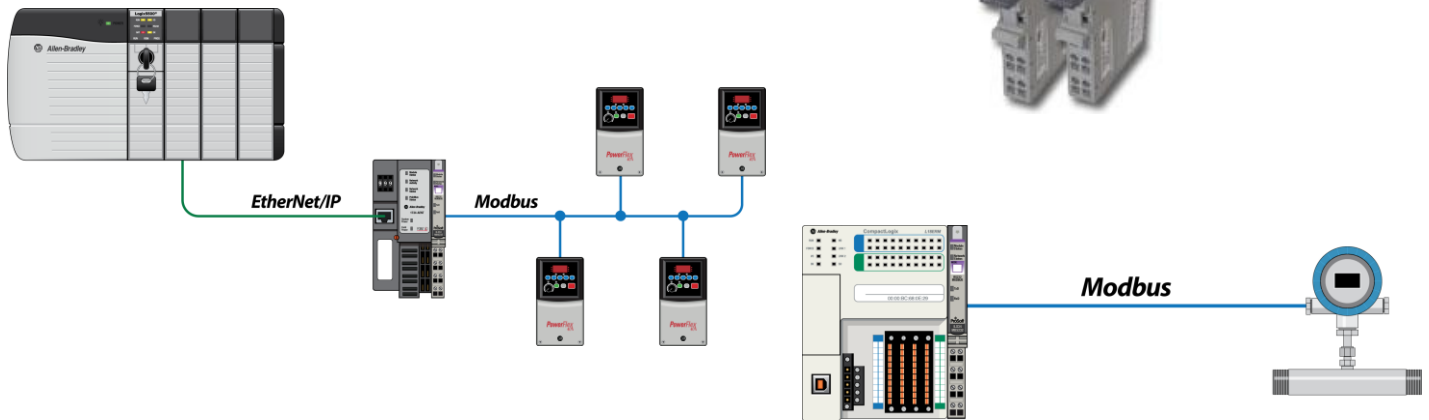


# DATASHEET

## Modbus Serial Module for CompactLogix L1 and Point I/O Adapters

**ILX34-MBS232**  
**ILX34-MBS485**

ProSoft Technology's ILX34-MBS modules are ideal for applications that require RS-232 or RS-485 Modbus Serial connectivity. These include SCADA and field device interface applications. Each module can be used in CompactLogix L1 processors or 1734 Point I/O systems. In addition, the modules can be configured as a Modbus Master or Slave.



## Features

- ◆ Add-on Instruction creates UDTs, providing logical definitions for I/O, status, and control data
- ◆ Diagnostic data available in RSLogix 5000/Studio 5000 controller tags, allowing decisions to be made based upon node health
- ◆ Module configuration is backed up in the CompactLogix project (ACD file)
- ◆ The serial port can be enabled or disabled through ladder logic
- ◆ Supports up to 1,000 words of data
- ◆ Supports up to 30 Modbus Commands & up to 36 words per command
- ◆ The serial port can be configured as a Modbus Master or Modbus Slave device
- ◆ Suitable for SCADA and field device interface applications

## General Specifications - Modbus Master/Slave

| Specification                   | Description  |
|---------------------------------|--|
| Configuration Environment       | RSLogix 5000/Studio 5000   |
| Communication parameters        | Baud Rate: 110 to 38.4K baud<br>Stop Bits: 1 or 2<br>Data Size: 7 or 8 bits<br>Parity: None, Even, Odd   |
| Modbus Modes                    | RTU mode (binary) with CRC-16<br>ASCII mode with LRC error checking  |
| Node Address                    | 1 to 247   |
| Modbus Function Codes Supported | 1: Read Coil Status<br>2: Read Input Status<br>3: Read Holding Registers<br>4: Read Input Registers<br>5: Force (Write) Single Coil<br>6: Preset (Write) Single Holding Register<br>8: Diagnostics (Slave Only, Responds to Sub function 00)<br>15: Force(Write) Multiple Coils<br>16: Preset (Write) Multiple Holding Registers |

## Hardware Specifications

| Specification          | Description   |
|------------------------|---|
| Power Supply           | 10 to 28.8 VDC (Two 24V power supplies needed if using a Series A L16/L18 controller)                             |
| Pointbus Current       | 75mA @ 5 VDC  |
| Serial Line Voltages   | RS-232: -15 to +15 VDC<br>RS-422/485: -7 to +12 VDC   |
| Number of Inputs       | 1 Full duplex   |
| Module Location        | 1734-TB or -TBS wiring base assembly (not included)<br>1734-TOP or -TOPS  |
| LED Indicators         | 1 green/red module status indicator<br>1 green/red network status indicator<br>2 green TXD, RXD status indicators |
| Operating Temperature  | -4°F to +131°F (-20°C to +55°C)   |
| Storage Temperature    | -40°F to +185°F (-40°C to +85°C)  |
| Relative Humidity      | 5% to 95% RH with no condensation   |
| Dimensions (H x W x D) | 2.21 x 0.47 x 2.97 in<br>56 x 12 x 75.5 mm  |
| Shock                  | 30g peak acceleration (Operational)<br>50g peak acceleration (Non-operational)                                    |
| Vibration              | Tested 5g @ 10 to 500 Hz  |
| ESD immunity           | 6kV contact discharges<br>8kV air discharges  |

## Agency Approvals & Certifications

Please visit our website: [www.prosoft-technology.com](http://www.prosoft-technology.com)



## Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

For a complete list of products, visit our website at:  
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## Ordering Information

To order this product, please use the following:

## Modbus Serial Communication Module

ILX34-MBS232

ILX34-MBS485

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to:  
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