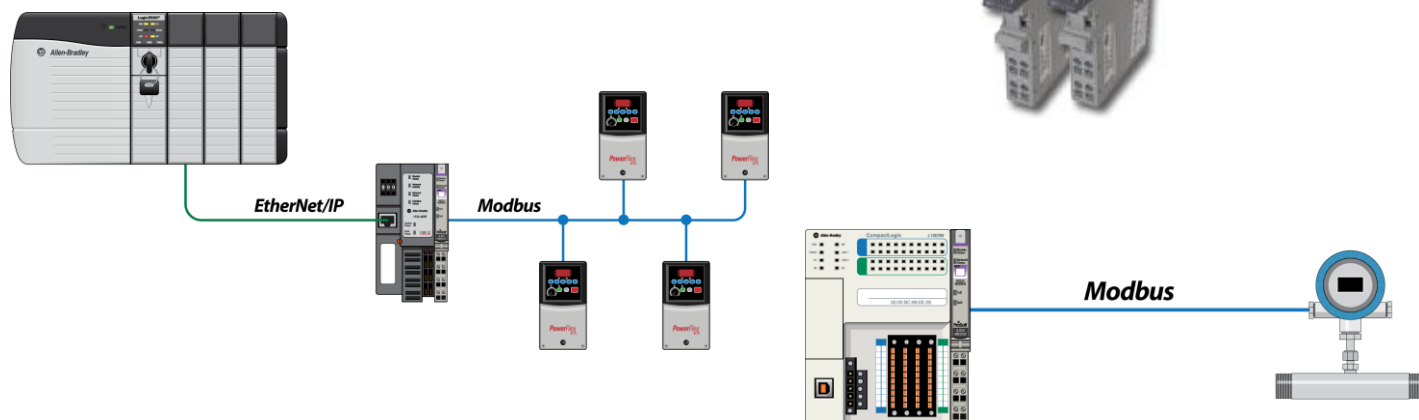# DATASHEET

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 Stop Bits: 1 or 2 Data Size: 7 or 8 bits Parity: None, Even, Odd
Modbus Modes	RTU mode (binary) with CRC-16 ASCII mode with LRC error checking
Node Address	1 to 247
Modbus Function Codes Supported	1: Read Coil Status 2: Read Input Status 3: Read Holding Registers 4: Read Input Registers 5: Force (Write) Single Coil 6: Preset (Write) Single Holding Register 8: Diagnostics (Slave Only, Responds to Sub function 00) 15: Force(Write) Multiple Coils 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	75 mA @ 5 VDC
Serial line Voltages	± 3 to ± 25 VDC
Number of Inputs	1 full duplex
Module Location	1734-TB or -TBS wiring base assembly (not included)
	1734-TOP or -TOPS
LED Indicators	1 green/red module status indicator
	1 green/red network status indicator
	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	2.21 x 0.47 x 2.97 in
(H x W x L)	56 x 12 x 75.5 mm
Shock	30g Peak acceleration (operating)
	50g Peak acceleration (non-operating)
Vibration	Tested 5g @ 10 to 500 Hz
ESD Immunity	6 kV contact discharges
	8 kV air discharges

Agency Approvals & Certifications

Agency	Applicable Standard(s)
UL/cUL	Class 1, Div. 2 Groups A, B, C, D
ATEX	Category 3, Zone 2
CE Mark	
CB Safety	