



## Modbus Plus to ASCII Generic Serial Gateway

### 5301/5302-MBP-ASCII(4)

The ProLinx Modbus Plus to ASCII Generic Serial Gateway creates a powerful connection between devices on a Modbus Plus network and ASCII input devices. This stand-alone DIN-rail mounted protocol gateway provides one Modbus Plus configurable DB9F port and up to four ASCII configurable serial ports.

The Modbus Plus protocol driver supports both Master and Slave implementations of the protocol on the DB9 Female Modbus Plus port. The Modbus Plus port is fully configurable.

The ASCII protocol driver permits the module to interface to many ASCII devices. Each ASCII port on the module is configurable to send and/or receive ASCII strings, each supporting its own individual serial network.

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*The MBP-ASCII modules are the ideal solution for the many applications where Modbus Plus connectivity can be used to integrate an ASCII generic serial input device into a system. The Modbus Plus gateway is a powerful module designed with both Master and Slave support, enabling easy connection to other Modbus devices (Modicon processors and many others). In combination with the ASCII device support, the module provides a very powerful interface to the many ASCII input devices which are in use in the industrial marketplace today. Applications for the module are found in most industries, especially Manufacturing, Oil and Gas, Electrical Power and Food Processing.*

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### Modbus Plus

The Modbus Plus protocol driver exists in a single Modbus Plus Port (MBP). The driver can be configured on an individual port basis as either a master or a slave to interface with other Modbus Plus devices.

#### General Parameters

Modbus Function Codes	3: Read Multiple Data Registers (MSTR 2) 16: Write Multiple Data Register (MSTR 1) Global data read (32 words max.) Global data write (32 words max.)
Address Scope	1 to 64

#### Modbus Plus Functioning as a Master

Command List	Up to 200 commands on the master port, fully configurable for function, slave address, register to/from addressing and word count
Polling of command list	Configurable polling of command list, including continuous and on change of data

#### Modbus Plus Functioning as a Slave

Node address	1 to 64 – software selectable
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### ASCII

The ASCII driver provides a powerful connection between the internal application database in the ProLinx unit and devices supporting serial ASCII

communications (bar code scanners, line printers, legacy terminal based computer systems, etc).

The serial port on the gateway is user-configurable to support ASCII communications (Baud rate, Data Bits, Stop Bits, etc). The ASCII port can act as a Master (Send ASCII strings) or as a Slave (Receive ASCII strings), or both.

#### ASCII Specifications

Ports	Available in up to four port configurations to receive and/or transmit data.
Transmit and Receive buffer size	255 bytes each
Transmit character with pacing	0 to 65535 millisecond delay between each transmitted character.

#### General Specifications

The ProLinx Communication Modules provide connectivity for two or more dissimilar network types. The modules, encased in sturdy extruded aluminum, are stand-alone DIN-rail mounted protocol gateways, providing communication between many of the most widely used protocols in industrial automation today.

#### Hardware Specifications

Specification	Description
Power Supply	24 VDC nominal 18 to 36 VDC allowed Positive, Negative, GND Terminals 2.5 mm screwdriver blade
Current Load	500 mA max@ 24 VDC
Operating Temperature	-20 to 50°C (-4 to 122°F)
Storage Temperature	-40 to 85°C (-40 to 185°F)
Relative Humidity	5 to 95% (non-condensing)
Dimensions	Standard: 5.20H x 2.07W x 4.52D in. (13.2cmH x 5.25cmW x 11.48cmD) Extended: 5.20H x 2.73W x 4.52D in. (13.2cmH x 6.934cmW x 11.48cmD)
LED Indicators	Power and Module Status Application Status Serial Port Activity LED Serial Activity and Error LED Status
Configuration Serial Port	DB-9M RS-232 only No hardware handshaking
Ethernet Port (Ethernet modules only)	RJ45 Connector Link and Activity LED indicators
Application Serial Ports	RS-232/422/485 RS-232 handshaking configurable RS-422/485 screw termination included

Specification	Description
Serial Port Isolation	2500V RMS port signal isolation per UL 1577 3000V DC min. port to ground and port to logic power isolation
Shipped with Each Unit	Mini-DIN to DB-9M serial cables 4 ft RS-232 configuration cable 2.5mm screwdriver CD (docs and Configuration utility) RS-422/485 DB-9 to Screw Terminal Adaptor (1 or 4, depending on ports)

#### ProSoft Configuration Builder

ProSoft Configuration Builder (PCB) provides a quick and easy way to manage module configuration files customized to meet your application needs. PCB is not only a powerful solution for new configuration files, but also allows you to import information from previously installed (known working) configurations to new projects.

#### Additional Products

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

Visit our web site at <http://www.prosoft-technology.com> for a complete list of products.

#### Ordering Information

To order this product, please use the following:

**5301/5302-MBP-ASCII(4)** Modbus Plus to ASCII  
Generic Serial Gateway

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft distributors near you, go to <http://www.prosoft-technology.com>

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