ASCII Generic Serial to PROFIBUS DP Slave Gateway
5105-ASCII-PDPS

The ASCII-PDPS modules are the ideal solution for the many applications where PROFIBUS DP Slave connectivity can be used to integrate an ASCII generic serial input device into a system. The PROFIBUS DP Slave gateway is a powerful module designed with Slave support, enabling easy connection to a PROFIBUS master device. 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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ASCII Generic Serial to PROFIBUS DP Slave Gateway

5105-ASCII-PDPS

The ProLinx ASCII Generic Serial to PROFIBUS DP Slave Gateway creates a powerful connection between a PROFIBUS DP master device and an ASCII input device. The module provides one PROFIBUS DP Slave port and one ASCII configurable serial port.

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.

The PROFIBUS DP Slave protocol driver supports the PROFIBUS V0 Slave implementation, providing powerful data transfer capability between the ProLinx module and Siemens PLCs or other hosts. User configurable data mapping and DP port operation make the interface an easy to use and powerful data transfer tool.

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
<table>
<thead>
<tr>
<th>Ports</th>
<th>Available in up to four port configurations to receive and/or transmit data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmit and Receive buffer size</td>
<td>255 bytes each</td>
</tr>
<tr>
<td>Transmit character with pacing</td>
<td>0 to 65535 millisecond delay between each transmitted character.</td>
</tr>
</tbody>
</table>

PROFIBUS DP Slave

The PROFIBUS DP Slave driver gives access to the ProLinx unit's internal database via 244 bytes of Input data and 244 bytes of Output data (maximum 400 bytes total). These Input and Output data blocks are mapped by the user within the ProLinx module's data memory.
allowing the user maximum flexibility and data transfer with other protocols.

### General Parameters

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSD File</td>
<td>PRLX05A5.GSD Downloadable from ProSoft Technology web site</td>
</tr>
</tbody>
</table>

### PROFIBUS Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication parameters</td>
<td>Baud Rate: 9.6 kbit/s – 12 Mbit/s</td>
</tr>
<tr>
<td>Supported I/O length</td>
<td>244 bytes Input data&lt;br&gt;244 bytes Output data&lt;br&gt;400 bytes total</td>
</tr>
<tr>
<td>Supported PROFIBUS DP features</td>
<td>PROFIBUS V0 Slave using Siemens SPC3 chipset&lt;br&gt;Freeze Mode&lt;br&gt;Sync Mode&lt;br&gt;Auto Baud Setting</td>
</tr>
<tr>
<td>Configurable Parameters</td>
<td>PROFIBUS Node Address: 1 to 125&lt;br&gt;Data byte swapping&lt;br&gt;Action on loss of PROFIBUS connection&lt;br&gt;Comm Fail Timeout Multiplier&lt;br&gt;Status Data location in Internal Database</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Supply</td>
<td>24 VDC nominal&lt;br&gt;18 to 36 VDC allowed&lt;br&gt;Positive, Negative, GND Terminals&lt;br&gt;2.5 mm screwdriver blade</td>
</tr>
<tr>
<td>Current Load</td>
<td>500 mA max@ 24 VDC</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>−20 to 50°C (−4 to 122°F)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>−40 to 85°C (−40 to 185°F)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5 to 95% (non-condensing)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Standard: 5.20H x 2.07W x 4.52D in.&lt;br&gt;(13.2cmH x 5.25cmW x 11.48cmD)&lt;br&gt;Extended: 5.20H x 2.73W x 4.52D in.&lt;br&gt;(13.2cmH x 6.93cmW x 11.48cmD)</td>
</tr>
<tr>
<td>LED Indicators</td>
<td>Power and Module Status&lt;br&gt;Application Status&lt;br&gt;Serial Port Activity LED&lt;br&gt;Serial Activity and Error LED Status</td>
</tr>
</tbody>
</table>

### Specification Description

- **Configuration Serial Port**: DB-9M RS-232 only<br>No hardware handshaking
- **Ethernet Port (Ethernet modules only)**: RJ45 Connector<br>Link and Activity LED Indicators
- **Application Serial Ports**: RS-232/422/485<br>RS-232 handshaking configurable<br>RS-422/485 screw termination included
- **Serial Port Isolation**: 2500V RMS port signal isolation per UL 1577<br>3000V DC min. port to ground and port to logic power isolation
- **Shipped with Each Unit**: Mini-DIN to DB-9M serial cables<br>4 ft RS-232 configuration cable<br>2.5mm screwdriver<br>CD (docs and Configuration utility)<br>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


### Ordering Information

To order this product, please use the following:

**5105-ASCII-PDPS** ASCII Generic Serial to PROFIBUS DP Slave 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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