Modbus TCP/IP to PROFIBUS DP Slave Gateway

5205-MNET-PDPS

The MNET-PDPS modules are the ideal solution for the many applications where Modbus TCP/IP connectivity can be used to integrate a PROFIBUS DP Slave device into a system. The Modbus TCP/IP gateway is a powerful module designed with both Client and Server support, enabling easy connection to other Modbus TCP/IP devices (Modicon processors and many others). In combination with the PROFIBUS DP device support, the module provides a very powerful interface to the many Modbus TCP/IP 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.

How to Contact Us: Sales and Support

All ProSoft Technology® products are backed with unlimited technical support. Contact our worldwide Technical Support team directly by phone or email:

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Modbus TCP/IP to PROFIBUS DP Slave Gateway

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The ProLinx Modbus TCP/IP to PROFIBUS DP Slave Gateway creates a powerful connection between devices on a Modbus TCP/IP network and a PROFIBUS DP Master device. This stand-alone DIN-rail mounted protocol gateway provides a single Ethernet port and a single DB9F PROFIBUS port.

The Modbus TCP/IP protocol driver can interface many different protocols into Schneider Electric Quantum processors as well other solutions supporting the protocol. The MNET driver supports Client and Server connections, and when coupled with the Web option provides a web/ftp interface as well.

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.

Modbus TCP/IP

The Modbus TCP/IP driver interfaces with a common internal database in the module. This permits the sharing of data between the Modbus TCP/IP and other networks and devices.

<table>
<thead>
<tr>
<th>Modbus TCP/IP Server</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td>Server supports up to 5 independent connections each to Modbus TCP/IP clients on Service Port 502 using the standard MBAP protocol, and Service Port 2000.</td>
</tr>
<tr>
<td>Configurable Parameters</td>
<td>Module IP Address, Modbus address offsetting</td>
</tr>
</tbody>
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<table>
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<tr>
<th>Modbus TCP/IP Client</th>
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<tbody>
<tr>
<td>General</td>
<td>Actively reads and writes data with Modbus TCP/IP compatible devices. One client connection (up to 100 servers/devices with 100 commands)</td>
</tr>
<tr>
<td>Configurable parameters</td>
<td>Number of active commands, Min Command Delay, Response Timeout, Retry Count, Command Error Pointer</td>
</tr>
<tr>
<td>Command List</td>
<td>Up to 100 fully configurable commands on the Client port</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
GSD File
PRLX05A5.GSD
Downloadable from ProSoft Technology web site

PROFIBUS Specifications
Communication parameters
Baud Rate: 9.6 kbit/s – 12 Mbit/s
Supported I/O length
244 bytes Input data
244 bytes Output data
400 bytes total
Supported PROFIBUS DP features
PROFIBUS V0 Slave using Siemens SPC3 chipset
Freeze Mode
Sync Mode
Auto Baud Setting

Configurable Parameters
PROFIBUS Node Address: 1 to 125
Data byte swapping
Action on loss of PROFIBUS connection
Comm Fail Timeout Multiplier
Status Data location in Internal Database

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>
</table>
| 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 |

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.

Ordering Information
To order this product, please use the following:

5205-MNET-PDPS  Modbus TCP/IP 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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