



**PROFIBUS DP Slave to  
Honeywell DE Master Gateway  
5306-PDPS-DEM**

*The PDPS-DEM modules are the ideal solution for the many applications where PROFIBUS DP connectivity can be used to integrate Honeywell DE slave devices into a system. The PROFIBUS DP Slave gateway is a powerful module designed with Slave support, enabling easy connection to PROFIBUS master devices. In combination with the Honeywell DE support, the module provides a very powerful interface to the many Honeywell DE slave 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:

**Asia Pacific**

+603.7724.2080, asiapc@prosoft-technology.com  
Languages spoken include: Chinese, Japanese, English

**Europe – Middle East – Africa**

+33 (0) 5.34.36.87.20, support.EMEA@prosoft-technology.com  
Languages spoken include: French, English

**North America**

+1.661.716.5100, support@prosoft-technology.com  
Languages spoken include: English, Spanish

**Latin America (Sales only)**

+1.281.298.9109, latinam@prosoft-technology.com  
Languages spoken include: Spanish, English

**Brasil**

+55-11.5084.5178, eduardo@prosoft-technology.com  
Languages spoken include: Portuguese, English

**DISCONTINUED**

**PROFIBUS DP Slave to  
Honeywell DE Master Gateway  
5506-PDPS-DEM**

The ProLinx PROFIBUS DP Slave to Honeywell DEM Gateway creates a powerful connection between devices on a PROFIBUS DP network and Honeywell DE slave device. This stand-alone DIN-rail mounted protocol gateway provides one PROFIBUS DP Slave configurable DB9F port and eight configurable Honeywell DE channels.

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.

The DEM protocol driver is designed to provide a tightly integrated communications interface between other protocols of the ProLinx platform and the Honeywell DE instruments. Compatible DE devices include a large array of field devices including pressure, temperature, metering, and many other instruments.

**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

## Honeywell DE Master

The ProLinx DEM Protocol Driver is designed to interface with up to 8 DE devices. Data is exchanged between the DE instruments and the driver using the internal database contained in the DEM module.

### DE Communications

- Built in accordance with the Honeywell DE specification
- Supports up to 8 single PV transmitters, 2 multivariable transmitters with 4 PVs each, or a mix of single and multivariable equaling 8 input channels
- Instrument database mismatch verification
- Interfaces directly to Honeywell Field Terminal Assembly (FTA) with ProSoft-supplied cable
- Supports redundant and non-redundant FTA implementations
- Single cable connection from DEM module to FTA

### Physical Specifications

Power Source	External 24 VDC source connection on the front of the DEM module provides instrument loop power
LEDs for Visual Module Status	DE Active DE Error

### 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

Specification	Description
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
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.