

# DSDATA SERVER OVERVIEW

## PC-DSDATA \$295.00

The DSDData Server allows you to use many standard Windows software packages to quickly and easily exchange data with your *DirectLOGIC* PLC. In the past, if you wanted to use a personal computer to access PLC data, you either had to purchase an HMI package or spend many hours learning the PLC communications protocol. With the DSDData Server, you can now use packages such as Excel or Visual Basic as a "window" to the PLC for either control or data acquisition. The DSDData Server also provides the powerful feature of Object linking and embedding for Process Control (OPC). The DSDData Server works with all of our PLC product families (DL05, DL06, DL105, DL205, DL305 and DL405.)

## Features

- OPC Server: fully OPC compliant
- Windows 9x/2000/XP/NT4 user interface features
- Sub-topic support
- Event logging
- NickName support
- System items
- 32-Bit communication server

## New for DSDData version 4.0

Version 4.0 adds support for the following new PLCs:

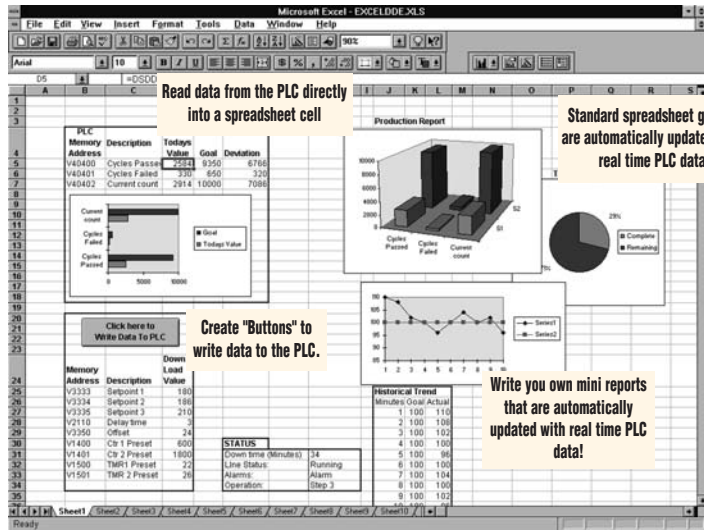
- D0-06xx, where xx is model type
- D2-260 CPU

## Software upgrades

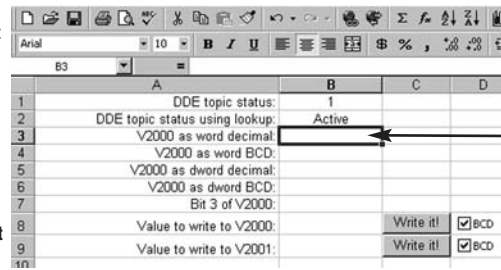
PC-DSDATA-UPG \$199.00

Any release that contains major feature enhancements will be subject to the normal upgrade charge in effect at that time.

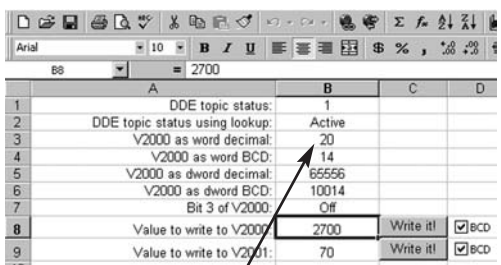
*Note: The upgrade will only update any packages that are already installed on your system.*



Excel spreadsheet

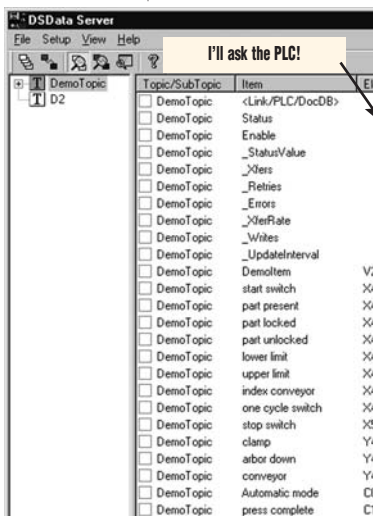


DDE Command sent



DSDData Server

DDE information returns



PLC

You need V2000?

PLC protocol

PLC protocol





# DSDATA SERVER OVERVIEW

## OPC operation

OPC consists of a standard set of interfaces, properties, and methods for use in process control and automation applications. It is based on Microsoft's OLE (Active X), Component Object Model (COM and Distributed Component Object Model (DCOM). These technologies define how individual software components can interact and share data.

The DSData Server provides a link or bridge between your OPC Client (HMI, etc.) and your PLC(s). Use the DSData Server tools to build a communications link to the PLC. Once configured, the DSData Server runs like any other Windows application as it handles the requests to exchange data with the PLC.

## DSData server with Visual Basic

The DSData Server and the Professional Edition of Visual Basic for Windows (3.0 or higher) is a great combination for building a more graphical approach for data acquisition or control. Visual Basic allows you to create screens with graphic symbols, such as slider bars, gauges, buttons, flashing text, etc. There are standard shapes available that can be modified to allow more complex graphic symbols to be created.

You can use the DDE commands to tie these objects directly to the PLC data using the following methods:

- Use the commands in a Properties box
- Use the commands in a subroutine

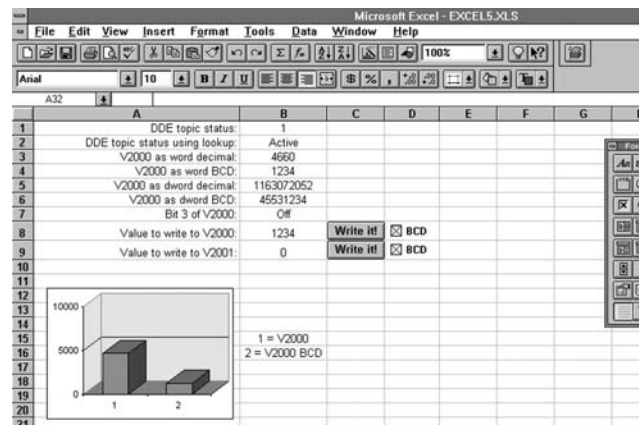
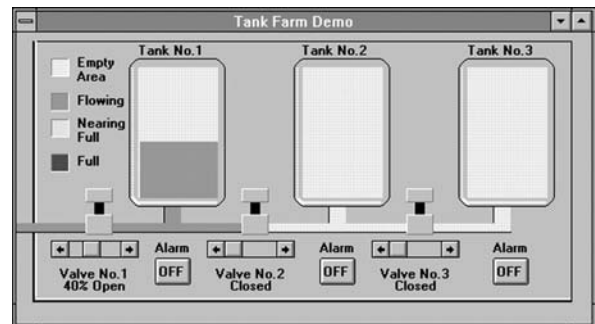
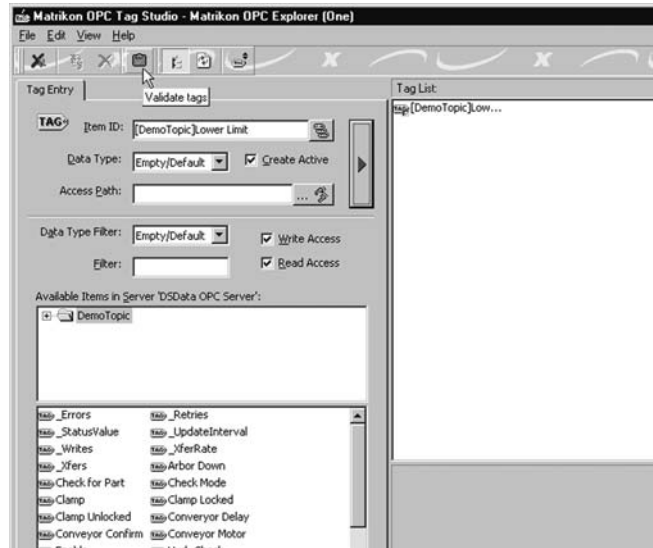
## Use with spreadsheets

Many popular spreadsheet packages support OPC/DDE. You can either read data from the PLC or write data to the PLC by using OPC/DDE commands. There are primarily two ways that you can use these commands in a spreadsheet:

- Embed the commands in a Formula (read only)
- Embed the commands in a Macro (read or write)

Spreadsheet formulas are probably the easiest and fastest way to read data. You simply enter a cell formula with the proper OPC/DDE syntax and the data update begins. This is often called a 'hot link' because no manual action is required to initiate the data exchange. You can even tie the formulas to initiate bar charts, etc., to create your own graphic display.

Macros provide additional flexibility since you can use them to read or write data. Also, many packages even allow you to create buttons and other objects that can be tied to a macro. You can then click on the button to trigger the read or write operation.



**Example Formula**  
=DSData|DemoTopic!V2000:B'

**Example Macro**  
WriteDataBtn\_Click Macro

```

Sub WriteDataBrn_Click( )
Channel = DDEInitiate
("DSData", "DemoTopic")
Set Data = Cells(8,2)
DDEPoke Channel, "V2000", Data
DDETerminate Channel
End Sub

```

1 - 8 0 0 - 6 3 3 - 0 4 0 5