



Figure 1: DPN Demo

The program is tested in Windows NT 3.5. For use in other operating systems you must recompile the sources. Using the "dpntdemo.mak" project file included you can compile the sample program, for example, using the Microsoft C compiler.

The DP library makes the following functions available:

Function call	Description
dpn_init()	Initialize the DP systems
dpn_reset()	Reset the DP system
dpn_in_slv()	Read input data of a DP slave
dpn_out_slv()	Send output data to a DP slave
dpn_in_slv_m()	Read input data of multiple DP slaves
dpn_out_slv_m()	Send output data to multiple DP slaves

dpn_get_mode()	Get operating mode
dpn_set_mode()	Set operating mode
dpn_read_slv()	Read local output data of a DP slave
dpn_slv_diag()	Read diagnostics data of a DP slave
dpn_read_sys_info()	Read complete status
dpn_global_ctrl()	Global Control Command
dpn_read_cfg	Determine configuration

The executable program consists of the following files:

dpntdemo.exe	Demonstration program
dphelp.hlp	Help file German
dphelpe.hlp	Help file English
demo.ico	DP icon
dplib.dll	DP library as DLL - is copied into the Windows system directory upon installation

Using the "COM PROFIBUS" configuration tool, you first generate a database for those DP slaves with which the sample program is to exchange data. Start the "dpntdemo.exe" program via the File Manager or Program Manager of Windows. You can generate up to four active instances of the demonstration program. After successful initialization of a DP application, the number (1 to 4) of the instance is appended to the end of the program name.

The following sources files are made available in the download:

demo.c	Windows main program
demodlg.c	Dialog box routines
demomenu.c	Child window functions
request.c	Using the DP call functions
dpntdemo.mak	MSVC Make file for generating the sample program

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**Note:**

The individual menu items are always displayed in English regardless of the language version of Windows selected.

**Sample program download**

The download contains the source codes described and an executable program. Handling, the functions available and how the sample program works are all described in the Help file "dphelp.hlp" (or dphelp.e.hlp). You can call the Help file via the "Help" menu item of the sample program or directly via the File Manager.

Copy the "CP5412\_A2.exe" file into a separate directory and then start the file with a double-click. The program files are unpacked automatically with their associated subdirectories. You can then start the unpacked program or use the program files.

**Important:**

The sample program is freeware. Every user can use, copy or forward this program FREE OF CHARGE. The authors and owners of this program take no responsibility whatsoever for the functionality and compatibility of this software. Use of the software is entirely at the users own risk. Since this software is free of charge, there is no warranty, nor claim for error correction and hotline support.