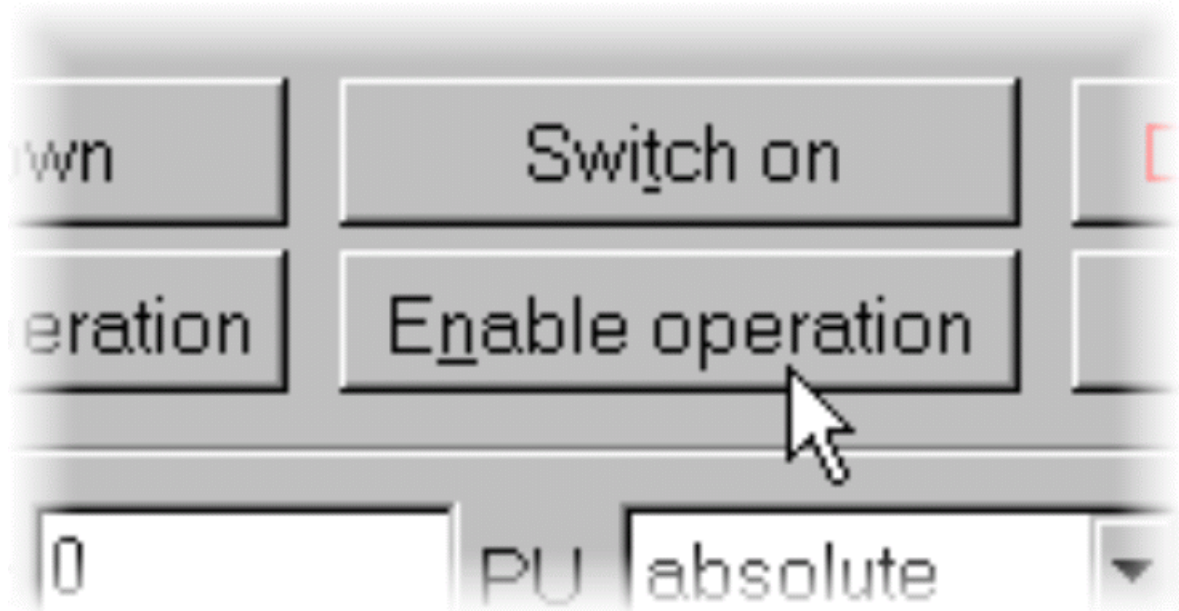


SOFTWARE FOR SERVO DRIVE SYSTEMS

SPP Windows Command and Commissioning Software
Function Blocks • Drivers and DLL Libraries • OPC



Overview

The ESR software facilitates parameterization, commissioning, and diagnostics of the TrioDrive D/xS, MidiDrive D/xS, TrioDrive D, MidiDrive D, and MaxiDrive digital servo drives. It can also be used for writing own application programs and integrating the drives into automation systems.

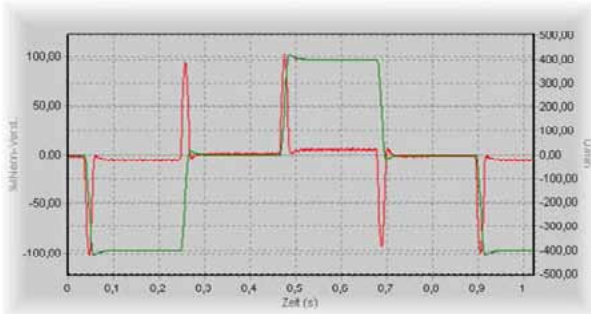
- SPP Windows and SPP Windows light command and commissioning software for comfortable parameterization and diagnostics via PC
- DriveServer OPC server for an easy integration into PC-based automation systems
- Function blocks
 - for an easy integration of ESR servo drives into automation systems
 - for many common controllers (e. g. Simatic S7 and controllers according to IEC 61131-3)
 - for different fieldbuses (Profibus DP, CANopen, EtherCAT, and others)
- Drivers and DLL libraries
 - for communication with the servo drive via
 - serial interface
 - fieldbuses (CANopen, EtherCAT, and others)
 - TCP/IP (e. g. Ethernet)
 - DriveServer-compatible bus servers (OPC client, irrespective of the fieldbus)
 - for SPP Windows and the development of own application programs
 - for common programming languages such as Borland Cbuilder, Microsoft Visual C++, Visual Basic (VBA), and Pascal (Delphi)
 - program examples as a basis for the development of own programs
- INFOTOOL
 - easy readout of device information for diagnostics
 - free download from the Internet

SPP Windows Command and Commissioning Software

for Windows 95/98/NT 4.0/2000/XP/Vista

The ESR Pollmeier digital servo drives are delivered ready for operation. As soon as the electrical connections have been established, the drives can be parameterized via PC using the SPP Windows (full version) or SPP Windows light command and commissioning software.

In addition to the part program editor, the full version of SPP Windows includes other useful functions such as file exports, data comparison, extensive signal selection in the trace oscilloscope, etc.



Main characteristics

- one software for all device families and variants
- easy operation and commissioning of the digital servo drives using a PC
- intuitive Windows-like user interface
- bilingual, English/German can be selected, other languages on request
- input and modification of machine data and part programs (part program editor in the full version of SPP Windows)
- comparison between opened data block and device data or files possible (in the full version of SPP Windows)
- drive control in all operating modes for commissioning purposes
- oscilloscope functions for comfortable setting of drive parameters (reduced signal selection in SPP Windows light)
- hotkeys for frequently used functions
- archiving and documentation of data possible
- export into various file formats for supporting higher-level controllers, e. g. AWL, SCS, XML, EDS (in the full version of SPP Windows)

- menu structure according to VDI/VDE directive 2186
- connection to the servo drive via serial interface (up to 115 kBaud) or fieldbus interface (fieldbus in the full version of SPP Windows, only)
- irrespective of the interface, the same parameters are used in any case (DRIVECOM profile 22)
- comfortable update via Internet

Scope of delivery

Customers and potential buyers can download the free version of SPP Windows light from the Internet.

The scope of delivery of SPP Windows light includes

- a driver for communication via serial interface
- a demo driver simulating the communication to a device

The scope of delivery of the SPP Windows full version includes

- a driver for communication via serial interface
- a demo driver simulating communication with a device
- a connection cable for the serial interface (extension cable, serial, 9-pin, female and male connector, cores not twisted).

Drivers for the following communication interfaces are available on request (see page 3):

- fieldbus interface
- TCP/IP (e. g. Ethernet)
- DriveServer-compatible bus server (OPC client)

DriveServer OPC Server

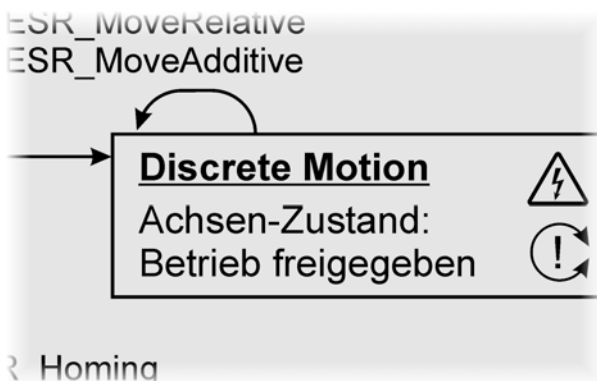
The DriveServer OPC server facilitates the integration of ESR servo drives in PC-based automation systems. After installation, the device with all its functions is available to any application program with OPC interface, e. g. visualization and process data logging systems.

For detailed information, see

www.esr-pollmeier.de/driveserver

Function Blocks

for an easy integration of ESR servo drives into automation systems



Main characteristics

- available for controllers by (in alphabetical order) Beckhoff, Bosch, Esitron, Frenzel+Berg, IBHsoftec, saia-burgess, Schleicher, Siemens, VIPA, and Wago (for a current list of supported controllers, see www.esr-pollmeier.de "Products/Software")
- support of other controllers on request
- according to PLCopen specification "Function blocks for motion control" (on the basis of IEC 61131-3)
- program examples for using the function library as a basis for developing own programs
- process data and parameter communication via Profibus DP or PDO/SDO communication via CANopen and EtherCAT
- parameterization of the servo drives by the controller (e. g. after switch-on)
- triggering of movements (relative/absolute positioning, going to home position, speed setting ...)
- influencing the positioning control integrated in the drive (part program)
- input and output of binary signals (software inputs/outputs)

Drivers and DLL Libraries

for SPP Windows and the development of own application programs for Windows 95/98/NT 4.0/2000/XP

On the basis of program examples, own application software can be developed using the program libraries and the supplied interface drivers. The interface drivers can also be used in connection with SPP Windows (full version).

Main characteristics

- Program examples for using the function library as a basis for the development of own programs
- Libraries for access to the functions of the digital servo drives as Win32-DLLs
- Modules for Borland Cbuilder, Microsoft Visual C++, Visual Basic (VBA), and Pascal (Delphi) included
- Interface drivers for connection via
 - serial interface
 - fieldbus interface (CANopen, EtherCAT; other fieldbuses and supported hardware on request)
 - TCP/IP (e. g. Ethernet)
 - DriveServer-compatible bus server (OPC client, supported hardware on request)
- standardized function call for interface-independent programming
- irrespective of the interface, the same parameters are used in any case (DRIVECOM profile 22)

INFOTOOL

- easy readout of device information from the digital servo drives via serial interface COM1 or COM2
- for easy diagnostics and as a support in case of problems
- runs on all PC-compatible computers with DOS or in a DOS window
- installation and external drivers not required
- bilingual, English/German can be selected
- small file size: fast Internet download, fits on a floppy disk
- one software for all device families and variants
- very easy to use: the device information is output as soon as the device is started

The INFOTOOL.EXE program can be downloaded from the Internet free of charge:

www.esr-pollmeier.de/infotool

Order Numbers

Software Designation	Order Number
SPP Windows command and commissioning software	SW 6710.1959.04
SPP Windows light command and commissioning software	SW 6710.1959.13
DriveServer OPC server	SW 6710.1959.15
Function blocks for Simatic S7 via Profibus DP	SW 6710.1959.10
Function blocks IEC 61131-3 for Bosch OpCon via Profibus DP	SW 6710.1959.12
Function blocks IEC 61131-3 for controllers with CoDeSys	SW 6745.1959.16
Drivers, DLL libraries, and example programs for the serial interface	SW 6710.1959.05
Drivers, DLL libraries, and example programs for TCP/IP *	SW 6710.1959.06
Drivers, DLL libraries, and example programs for CANopen *	SW 6710.1959.07
Drivers, DLL libraries, and example programs for EtherCAT *	SW 6745.1959.17
Drivers, DLL libraries, and example programs for DriveServer-compatible bus servers (OPC client) *	SW 6710.1959.14
INFOTOOL, download via www.esr-pollmeier.de/infotool	–

* for SPP Windows and own application software

Products, Consultation, Service

ESR drive packages consist of servo drives, servo motors, position sensors, gearboxes, and brakes. They are supplemented by electrical power supplies (if not included in the drive), connectors, connection cables (ready-assembled, if desired), and software. All parts of the packages are matching and have been tested as combinations. This delivery from a single source guarantees trouble-free commissioning, reliable operation, and a definite system responsibility on the part of only one supplier.

Our services include an individual drive system configuration. With many years of experience, we will be pleased to assist you at choosing the appropriate servo drive system for your application.

Applications

Positioning and feed movements with high dynamics and accuracy in

- Handling and assembly systems
- Electronics production machinery
- Semiconductor production machinery
- Measuring and testing machinery
- Optical discs production machinery (CDs, DVDs, ...)
- Machine tools and metal working machinery
- Packaging machinery
- Textile machinery
- Plastics processing machinery
- Coiling machinery
- and many other applications



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