



Product Data Sheet

SPA Bus Communication Server

The Klinkmann **SPA Communication Server** is a Microsoft Windows application program that acts as a communication protocol *Server* and allows other Windows application programs to access the data from ABB SPA-bus devices. Any Microsoft Windows program that is capable of acting as a DDE, FastDDE, SuiteLink or OPC *Client* may use the SPA Server

There are following SPA Server versions available:

- SPA DDE & Suite Link Server;
- SPA OPC & DDE Server.

FEATURES

The SPA-bus consists of one IBM PC or compatible computer as a master and several slaves. The IBM PC is connected to the physical SPA-bus via serial communication using Bus Connection Module. For fiber optic connections the SPA-ZC 22 unit can be used.

The interface to Bus Connection Module can be RS-485 (RTS lines must present) or RS-232. If RS-485 is used then RS-232/RS-485 converter (e.g. OPTO22 AC7A/B Adapter Card) or IBM serial adapter card (e.g. OPTO22 AC37 Remote Bus Adapter Card) can be used. The Server is also capable to communicate with SACO 100M device. In this case there is no need for the RS232/RS485 converter.

The **OPC** support for SPA Server OPC & DDE version conforms to OPC Data Access Custom Interface Specification 2.04. The SPA Server OPC & DDE version is tested for compliance and is compatible with OPC Foundation OPC Data Access Compliance Test Tool.

The SPA Server DDE & Suite Link version supports the Wonderware **Suite Link** communication protocol.

The Server minimizes system message traffic by dynamically calculating and optimizing poll lists to read only, client-requested items/points.

The Server supports multiple topics, allowing different data update rates for each unit.

The Server provides a communication status flag for each topic.

The Server supports standard DDE among multiple applications.

SPECIFICATIONS

Hardware: For effective use the following is recommended - CPU: 586 133 MHz or faster, 32MB RAM or more. May require more memory to run other Windows programs simultaneously.

Software: MS Windows XP, Windows 2003 Server, Windows 7, Windows 2008 Server, Windows 2012 Server.

Devices Supported: ABB SPA-bus devices.

Accessible Point Types

The SPA Server uses an item/point naming convention, based on the format of SPA bus master messages. The SPA Server item names also must fit inside the range of data categories and bus codes defined in the SPA Server Unit Definition File (must be created by user) for the appropriate unit (device). The Unit Definition File is read at SPA Server start-up and all item names are checked for correspondence with data defined in the Unit Definition File.

The following Point Types (data categories) are supported:

- Inputs
- Outputs
- Settings
- Variables
- Memories
- Slave identification codes
- Events
- Alarms

Note: The data types Inputs, Outputs, Settings, Variables and Memories can be DDE Discrete, DDE Integer, DDE Real or DDE Message. Received Event data are stored in the Event File.

ORDERING INFORMATION

Description / Order Number

SPA DDE & Suite Link Server Manual & Disk Set / DR 120 10

SPA OPC & DDE Server Manual & Disk Set / DR 120 11



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