The BradCommunications™ SST™ PROFIBUS® scanner connects your Allen-Bradley® PLC-5® controller to PROFIBUS DP.

PROFIBUS DP Scanner

For the Allen-Bradley PLC-5 Controller

Features

- **BradCommunications SST PROFIBUS DP Master Configuration Software**

- **Supports all standard PROFIBUS baud rates (up to 12 Mbaud)**

- **Simultaneous operation of PROFIBUS DP Master and Slave**

- **Flash memory for storage of DP Master I/O configuration**

- **Fast, easy set up into PLC-5 backplane, PROFIBUS I/O data is automatically transferred into the PLC-5 processor's integer (N) files of choice**

- **Supports exported configuration files from the BradCommunications SST DP configuration software**

Protocols
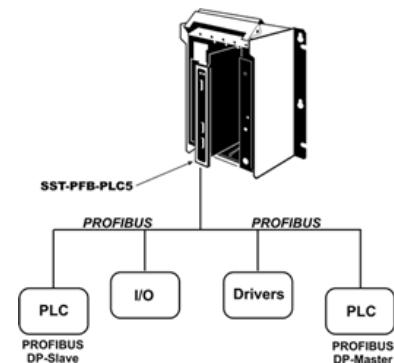
- **PROFIBUS DP Master V0-Class 1&2**

- **PROFIBUS DP Slave V0**

Typical Applications

- **Process application, e.g. waste water treatment**

- **Real-time control in steel industry**

- **Brewery applications**

Overview

The BradCommunications SST PROFIBUS scanner connects your Allen-Bradley PLC-5 controller to PROFIBUS as a master or slave to scan or emulate PROFIBUS DP I/O.

The BradCommunications SST PROFIBUS scanner fastens onto the side of any PLC-5 processor that supports a side car and functions with the Allen-Bradley PLC-5 as a co-processor.

A 9-pin serial port included on the scanner provides for firmware upgrades in the field and the upload of I/O configurations.

The PLC-5 processor logic scan and the PROFIBUS I/O scan are independent of each other. The PLC-5 processor reads the scanner input data during its input scan and writes the output data during its output scan. The scanner continues reading input data from the slaves and writing output data to the slaves independent of what the PLC-5 is doing. Slave status, diagnostic status information on all slaves, network diagnostic counters and DP Master diagnostic counters are maintained by the scanner.

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PROFIBUS® DP Scanner

Diagnostic & Software Tools

BradCommunications™ SST™ Configuration Software

- Browse your DP network for slave devices you want to include in your DP Master configuration using the DPView component

Scanner Software

- Maintains slave status, diagnostic status information on all slaves, network diagnostic counters, and DP Master diagnostic counters

- Maintains network and I/O module status information including:
  - Active Slave Station Bit table
  - Configured Slave Station Bit table
  - Network diagnostic counters
  - DP Master diagnostic counters

Diagnostic LEDs

- COMM, SYS and OK LEDs provide immediate notification of network and system errors

Other PROFIBUS® Products

- PROFIBUS modules for Allen-Bradley® ControlLogix® and SLC™ 500

- PROFIBUS network interface cards (PCI, C-PCI, PC/104, ISA, VME64, PCMCIA) with many user interfaces (DLL, OPC, ActiveX...)

- PROFIBUS gateways to ASi, Serial and Ethernet networks

- IP67 PROFIBUS I/O modules (M8/M12 connectors)

- Full metal PROFIBUS connector
  - IDC-technique provides quick and error-free connection
  - Optional diagnostic LED reduces downtime

- PROFIBUS media
  - Cable, cordsets, receptacles

Network Specifications

Protocol	• PROFIBUS DP Master V0, class 1&2 • PROFIBUS DP Slave V0
LAN Controller	• Siemens ASPC2
Slaves Supported	• Maximum of 125
I/O per Slave	• Maximum of 244 bytes in/out
I/O Mapping (for PLC-5®)	• Choose integer file (N) in PLC-5 for all card inputs • Choose a different integer file (N) for all card outputs • Maximum 1000 words in, 1000 words out • Mapping depends on the addresses assigned in the configuration you create
Data Rate	• All standard PROFIBUS data rates up to 12 Mbps
Cable	• Belden 3079A • BradConnectivity™ Brad Harrison® 85-0001 PVR2 conductor with shield, UL-listed
Connector	• DB9 female connector

Hardware Specifications

Bus Interface	Allen-Bradley PLC-5
Processor	Intel i960
Memory	512 KB of local i960 RAM 256 KB of onboard shared memory 512 KB of sectored flash memory for storage of program and configuration data
Diagnostics	Three LEDs indicate: 1. health of the PROFIBUS network (COMM) 2. communication status with PROFIBUS slaves (SYS) 3. that initialization is complete and the module is ok (OK)
Backplane Current Consumption	1.5A @ 5V from a supply delivering Separated Extra Low Voltage (SELV)
Operating Temperature	0ºC (32°F) up to +70ºC (158ºF)
Storage Temperature	-25ºC (-13°F) up to +70ºC (158°F)
Relative Humidity	5% to 95% non-condensing

Ordering Information

Part Number	Description
SST-PFB-PLC5	PROFIBUS Scanner for Allen-Bradley PLC-5
SST-PFB-CLX-RLL	PROFIBUS Scanner for Allen-Bradley ControlLogix, includes Remote Link Library
SST-PFB-SLC	PROFIBUS Scanner for SLC 500 series
APP-ESP-GTW	Gateway for PROFIBUS to serial/Ethernet
SST-PB3-PCU	PROFIBUS PCI interface card
TBDPB-4xxx-B8U	IP67 PROFIBUS I/O compact block 4 ports, 8 channels
PA9D01-42 PA9S01-42 MA9D00-42	PROFIBUS connector with integrated diagnostics, vertical PROFIBUS connector, vertical PROFIBUS connector with integrated diagnostics, horizontal
PBSTRIP	Cable stripping tool for use with PROFIBUS connector
85-001	PROFIBUS cable

PLC Network Interface

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from Woodhead Industries