FieldServer Protocol Driver Sheet
Profibus DP Master

FS-8700-122   **Version: 1.03 / Rev. 4**

1 DESCRIPTION

The FieldServer Profibus DP Master driver can be used to transfer I/O data with up to 125 Profibus DP Slave devices. The FieldServer is programmed with an embedded database using the required 3rd party configuration tool. The embedded database contains information on the number of slaves and I/O modules to be transferred with each slave. The tool requires the input of GSD/E files for each slave to be connected.

1.1 Connection Facts

FieldServer Mode	Nodes	Comments
Client DPV1 MASTER (CLASS 1) ONLY	125	This is the maximum number of Profibus DP Slaves that can be connected to the FieldServer. A maximum total of 1536 bytes can be transferred with all DP Slaves.

2 FORMAL DRIVER TYPE

Field Bus

Client Only

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x30	Yes
SlotServer	No
ProtoNode	No
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	No
ProtoCessor FPC-ED2	No
ProtoCessor FPC-ED4	No

4 CONNECTION INFORMATION

Connection type: Proprietary
Baud Rates: 9.6k, 19.2k, 45.45k, 93.75k, 187.5k, 500k, 1.5M, 3M, 6M, 12M bit/s
Hardware interface: Anybus-M Profibus DP
3rd Party Equipment: HMS Anybus NetTool for Profibus*

5 PROPRIETARY PHYSICAL INTERFACES SUPPORTED

FieldServer Model	Adapter Model #	Vendor	Physical Medium
FS-B3520	Anybus-M Profibus DP	HMS Networks	Twisted pair

6 DEVICES TESTED

Device	Tested (FACTORY, SITE)
SST-5136-PFB-ISA	Factory
Anybus-S Profibus DP	Factory

7 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

7.1 Data Types Supported

FieldServer Data Type	Description (or Device Data Type)
2-byte Integer (Signed and Unsigned)	Buffer arranged as WORDS
8-bit Byte	Buffer arranged as BYTES
4-byte Float	Buffer arranged as FLOATS
Bit	Buffer arranged as BYTES

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* A demo version of the tool is supplied which is limited to connecting up to 2 slaves

7.2   Data Operations Supported

FieldServer as a Profibus Master
Read Output Buffer Data from Profibus DP Slaves (Max 244 bytes per Slave)
Write Input Buffer Data to Profibus DP Slaves (Max 244 bytes per Slave)

7.3   Limits

FieldServer as a Profibus Master
A maximum total of 1536 bytes can be transferred with all DP Slaves

7.4   Unsupported Functions and Data Types

Function	Reason
Programming messages	FieldServer is a data transfer device, and as such, programming messages are not required