

## FieldServer Driver - Fieldbus FS-8700-122 Profibus X30 DP Master Driver

### Description

The FieldServer Profibus X30 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 3<sup>rd</sup> 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.

Fieldserver Mode	Nodes	Comments
Client DPV1 Master (Class 1) only	125	The FieldServer can connect up to so many Profibus DP Slave devices.

### Formal Driver Type

Fieldbus  
Client Only

### Compatibility Matrix

FieldServer Model	Compatible with this driver
FS-x2010	No
FS-x2011	No
FS-x40	No
FS-B3512	Yes

### 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  
**3<sup>rd</sup> Party Equipment:** HMS Anybus NetTool for Profibus\*

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

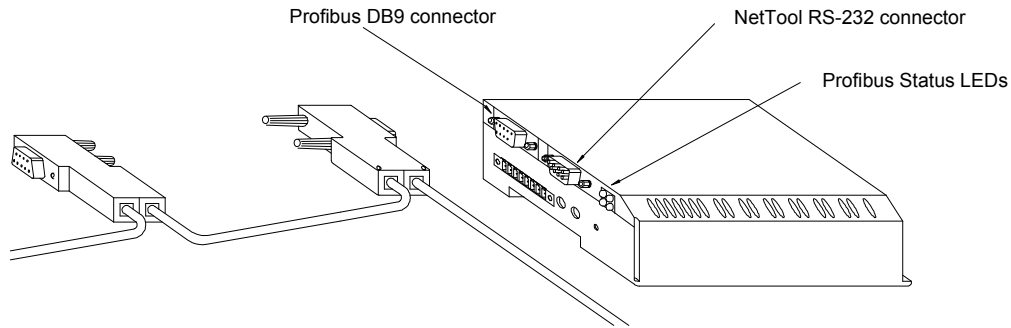
**Proprietary Physical Interfaces Supported**

Fieldserver Model	Adapter Model #	Vendor	Physical Medium
FS-B3512	Anybus-M Profibus DP	HMS Networks	Twisted pair

**Devices tested**

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

## Connection configurations



Profibus DB9 connector pinouts

Pin	Name	Description
Housing	Shield	Connected to PE
1	Not connected	-
2	Not connected	-
3	B-Line	Positive RxD/TxD according to RS 485 specification
4	RTS	Request To Send*
5	GND BUS	Isolated GND from RS 485 side*
6	+5 V BUS	Isolated +5 V from RS 485 side*
7	Not connected	-
8	A-Line	Negative RxD/TxD according to RS 485 specification
9	Not connected	-

\*+5 BUS and GND BUS are used for bus termination. Some devices, like optical transceivers (RS-485 to fiber optics) might require an external power supply from these pins. RTS is used in some equipment to determine the direction of transmission. In normal applications, only A-line; B-line and Shield are used.

## Connection Notes

Recommended cable is shielded copper cable.

**Communications functions - Supported functions at a glance:**

**Data Types Supported**

<b>FieldServer Data Type</b>	<b>Description (or Device Data Type)</b>
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

**Data Operations supported**

<b>FieldServer as a Profibus Master</b>	
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 )	

**Limits**

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

**Unsupported Functions and Data Types**

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

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