

FieldServer Driver - Fieldbus FS-8700-113 Profibus X30 DP Slave Driver

Description

The FieldServer Profibus X30 DP Slave driver can be used to emulate a single slave station on a Profibus network. DP Masters can open a connection of up to 244 Bytes of Input and 244 Bytes of Output data, but not exceeding a combined total of 416 Bytes to the FieldServer. The FieldServer can be added to the Profibus network with the use of the supplied GSD file for the ANYBUS™ card. Connection to the Profibus network is via a DB9 port on the ANYBUS™ card.

Fieldserver Mode	Nodes	Comments
Server	1	The FieldServer can only emulate one Profibus DP Slave station

Formal Driver Type

Fieldbus
Server 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, 93.75k, 187.5k, 500k, 1.5M, 3M, 6M, 12M bit/s
Hardware interface: Anybus-S Profibus DP

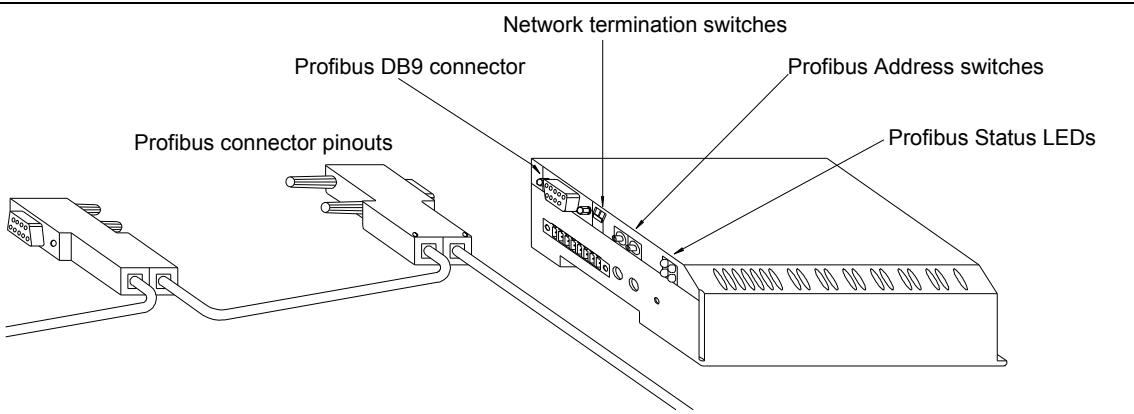
Proprietary Physical Interfaces Supported

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

Devices tested

Device	Tested (FACTORY, SITE)
SST-5136-PFB-ISA	FieldServer Technologies

Connection configurations



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	-

* +5V BUS and GND BUS are used for bus termination. Some devices, like optical transceivers (RS485 to fibre optics) might require 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

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

Data Operations supported

FieldServer as a Profibus Slave
Accept Output Buffer Data from a Profibus DP Master
Provide Input Buffer Data to a Profibus DP Master

Unsupported Functions and Data Types

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