Profibus DP Slave

Description

The FieldServer Profibus 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.

Connection Facts

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

Formal Driver Type

Fieldbus, Server only

Compatibility

FieldServer Model	Compatible	FieldServer Model	Compatible
ProtoCessor	No	QuickServer FS-QS-10xx	No
ProtoCarrier	No	QuickServer FS-QS-12xx	No
ProtoNode	No	QuickServer FS-QS-20xx	No
ProtoAir	No	QuickServer FS-QS-22xx	No
FS-B35 Series	Yes		

Connection Information

Connection Type: Proprietary

Baud Rates: 9.6k, 19.2k, 93.75k, 187.5k, 500k, 1.5M, 3M, 6M, 12Mbit/s. Driver is auto-sensing.

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	MSA

Communication Functions

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