



Driver Version: 1.02
Document Revision: 1

FieldServer Driver - Fieldbus FS-8700-20 Profibus DP

Description

The Profibus DP driver allows the FieldServer to transfer data to and from devices using Profibus DP protocol with the use of a communications adapter card installed in the FieldServer. The FieldServer can function as either a DP Master or a DP Slave on the Profibus network.

As a slave, the Profibus DP driver allows the FieldServer to be a single DP slave station to another DP master. This slave is capable of transferring 244 bytes of input and 244 bytes of output data to the other master. If it is necessary to transfer more data to a Profibus master, then the Profibus DPMS driver will be necessary. When used as a DP master, the adapter card provides a total of 16Kbytes of input and 16Kbytes of output data to be transferred with DP slaves.

Fieldserver Mode	Nodes	Comments
DP Master	126	The DP Master can communicate with up to 126 DP Slaves.
DP Slave	1	The DP Slave can represent one slave node on the network.

Formal Driver Type

Fieldbus
Client

Compatibility Matrix

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

Connection Information

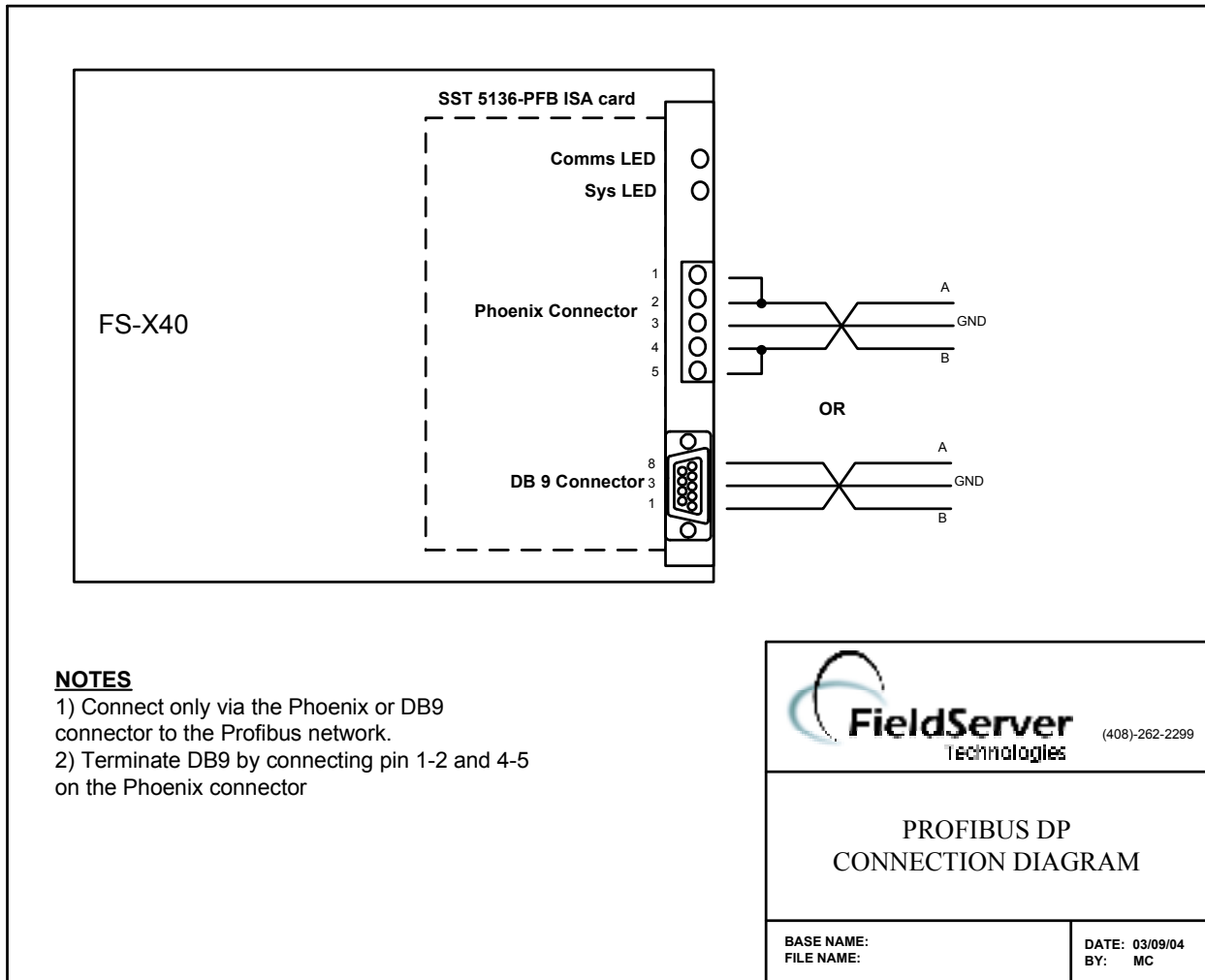
Connection type: Profibus
Baud Rates: 9600, 19200, 93.75K, 187.5K, 500K, 750K, 1.5M, 3M, 6M, 12M
Hardware interface: SST 5136-PFB-ISA



Devices tested

Device	Tested (FACTORY, SITE)
SST 5136-PFB-ISA (DP Slave)	FieldServer Technologies
SST 5136-PBMS (Multiple DP Slaves)	FieldServer Technologies

Connection configurations



Connection Notes

Please note that actual baud rates achievable on the Profibus network depend on the type and quality of network cable used as well as to the correct termination of the network. Please refer to Profibus network wiring requirements and to other device manufacturer's documentation if necessary.



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 double-words
Bit	Buffer arranged as bytes

Data Operations supported

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

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

Unsupported Functions and Data Types

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



Protocol Driver



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