

1 DESCRIPTION

The X30 DeviceNet Slave Adapter driver can be used to emulate a single slave station on a DeviceNet network. The FieldServer DeviceNet adapter is implemented as an ODVA profile 12 communications adapter and acts as a group 2 only server on the DeviceNet network. Standard DeviceNet baudrates of 125 k, 250k, and 500kbit/s are supported/ DeviceNet masters/scanners can open an IO connection of up to 512 Bytes in each direction to the FieldServer.

1.1 Connection Facts

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

2 FORMAL DRIVER TYPE

Fieldbus
Server 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: 125k, 250k, 500kbit/s
 Hardware interface: Anybus-S DeviceNet

5 PROPRIETARY PHYSICAL INTERFACES SUPPORTED

FieldServer Model	Adapter Model #	Vendor	Physical Medium
FS-x30	Anybus-S DeviceNet	HMS Networks	Twisted pair

6 DEVICES TESTED

Device	Tested (FACTORY, SITE)
Allen Bradely 1756-DNB B	FieldServer Technologies

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 Double Words	Buffer arranged as DWORDS
4-byte Float	Buffer arranged as FLOAT
Bit	Buffer arranged as BYTES

7.2 Data Operations Supported

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

7.3 Unsupported Functions and Data Types

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