

1 DESCRIPTION

The 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 125k, 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 – See Table 1
 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 Bradley 1756-DNB B	Factory

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

Note: The IO buffers can be arranged with mixed data-types as needed.

7.2 Data Operations Supported

FieldServer as a DeviceNet Slave
I/O Messaging: Accept Output Buffer Data from a DeviceNet Master (Scanner)
I/O Messaging: Provide Input Buffer Data to a DeviceNet Master (Scanner)

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
Change of state messaging	Not supported currently, please contact the FieldServer Sales department at www.fieldserver.com for more information.
Set attribute single	
Set attribute all	
Get attribute single	
Get attribute all	