

FieldServer Protocol Driver Sheet DeviceNet Mast Adapter

Driver

FS-8799-114

Version: 1.02 / Rev. 5

DESCRIPTION

The DeviceNet Master Adapter driver can be used to emulate a single Master Scanner station on a DeviceNet network. The FieldServer DeviceNet adapter is implemented as an ODVA profile 12 communications adapter. Standard DeviceNet Baudrates of 125k, 250k and 500kbit/s are supported. The DeviceNet Master Scanner can open IO connections of up to a total of 1536 Bytes in each direction to DeviceNet Slaves. The Driver can handle up to 63 Slaves since one of the station addresses needs to be assigned to the Master itself.

1.1 Connection Facts

FieldServer Mode	Nodes	Comments
Client	1	The FieldServer can only emulate one DeviceNet Master station
Server	63	The driver can communicate with up to 63 Slaves as long as the FieldServer point count license is not exceeded

2 FORMAL DRIVER TYPE

Fieldbus

Client 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

CONNECTION INFORMATION

Connection type: Baud Rates: Hardware interface: 3rd Party Equipment: Proprietary 125k, 250k, 500kbit/s Anybus-M DeviceNet HSM NetTool for DeviceNet

5 PROPRIETARY PHYSICAL INTERFACES SUPPORTED

FieldServer	Adapter	Vendor	Physical
Model	Model #		Medium
FS-X30	Anybus-M	HMS	Twisted
	DeviceNet	Networks	pair

6 **DEVICES TESTED**

Device	Tested (FACTORY, SITE)	
Allen Bradley 1756-DNB B	Factory	
Anybus-S DeviceNet	Factory	

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
2-byte Integer (Signed and Unsigned)	Buffer arranged as WORDS



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7.2 Data Operations supported

FieldServer as a DeviceNet Master

Accept Output Buffer Data from DeviceNet Slaves Provide Input Buffer Data to DeviceNet Slaves

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
Explicit messaging (get and set attribute) for parameter data. Parameter data has to be mapped to IO data if it needs to be accessed.	To be developed