



Driver Version: 1.01
Document Revision: 1

FieldServer Driver - Fieldbus FS-8700-114 X30 DeviceNet Master Adapter Driver

Description

The X30 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 512 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.

Fieldserver Mode	Nodes	Comments
Client	1	The FieldServer can only emulate one DeviceNet Master station

Formal Driver Type

Fieldbus
Client Only

Compatibility Matrix

FieldServer Model	Compatible with this driver
FS-X2010	No
FS-X2011	No
FS-X40	No
FS-X30	Yes

Connection Information

Connection type: Proprietary
Baud Rates: 125k, 250k, 500kbit/s
Hardware interface: Anybus-M DeviceNet

Proprietary Physical Interfaces Supported

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



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 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.

Data Operations supported

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

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 for parameter data. Parameter data has to be mapped to IO data if it needs to be accessed.	