DeviceNet Slave

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 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.

Connection Facts

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

Formal Driver Type

Fieldbus, Server only

Compatibility

FieldServer Model	Compatible	FieldServer Model	Compatible
ProtoCessor	No	QuickServer FS-QS-10xx	No
ProtoCarrier	No	QuickServer FS-QS-12xx	No
ProtoNode	No	QuickServer FS-QS-20xx	No
ProtoAir	No	QuickServer FS-QS-22xx	No
FS-B35 Series	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-B35	Anybus-M DeviceNet	HMS Networks	Twisted pair

Devices Tested

Device	Tested (Factory, Site)
Allen Bradley 1756-DNB B	MSA

Communication Functions

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

Data Operations Supported

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

Unsupported Functions and Data Types

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