



FieldServer Driver - Serial FS-8700-62 J-BUS

Description

The J-Bus driver supports connections over RS-232 and RS-485 (Half Duplex). The FieldServer can be configured as a client or server using the J-Bus protocol.

Fieldserver Mode	Nodes	Comments
Client	1 - 255	Modbus station Address of the node(s)
Server	1 - 255	Modbus station Address of the node(s)

Formal Driver Type

J-Bus is a Serial protocol that can be used for a Client or Server transactions.

Compatibility Matrix

FieldServer Model	Compatible with this driver
FS-X2010	Yes (Using P1 or R1)
FS-X2011	Yes (Using P1 or R1)
FS-X40	Yes (Using P1 - P8 and R1 - R2)

Connection Information

Note: Bold text indicates default values.

Connection type:	RS-232 or RS-485
Baud Rates:	110; 300; 600; 1200; 2400; 4800; 9600 ; 19200; 28800; 38400; 57600; 115200 Baud
Data Bits:	7,8
Stop Bits:	1
Parity:	Odd, Even, None , Mark, Space
Multidrop Capability	Yes (For RS-485)



Proprietary Physical Interfaces Supported

Fieldserver Model	Adapter Model #	Vendor	Physical Medium

Devices tested

Device	Tested (FACTORY, SITE)
MGE UPS	Site

Connection configurations

No connection diagram possible (multiple unknown connections supported)

Connection Notes

None

Communications functions

Data Types Supported

FieldServer Data Type	Description (or Device Data Type)
Analog Input	FLOAT, UInt16, SInt16 , Byte
Digital Input	BIT, , Packed_Bit,
Analog Register	FLOAT, UInt16, SInt16 , Byte
Digital Output	BIT, , Packed_Bit,

Read Operations supported

FieldServer as a Client (Function code)	FieldServer as a Server (Function code)
(1) – Read coil status	(1) – Read coil status
(2) – Read input status	(2) – Read input status
(3) – Read holding registers	(3) – Read holding registers
(4) – Read input registers	(4) – Read input registers
(11) – Fetch comm Event (Write not supported)	(11) – Fetch comm Event (Write not supported)



Write (Control) Operations supported

FieldServer as a Client	FieldServer as a Server
(5) – Force single coil	(5) – Force single coil
(6) – Preset single register	(6) – Preset single register
(10) – Poll 484 (Modicon 484 device)	(10) – Poll 484 (Modicon 484 device)
(15) – Force multiple coils	(15) – Force multiple coils
(16) – Preset multiple registers	(16) – Preset multiple registers
(126) – Force single Coil-127 (Only for coil 127)	(126) – Force single Coil-127 (Only for coil 127)

Unsupported Functions and Data Types

Function	Reason
Programming messages	FieldServer is a data transfer device, and as such, programming messages are not required
(07) – Read Exception status	
(08-xx) – Diagnostic Sub-functions	
(12) – Fetch comm event log	
(17) – Report Slave_ID	
(20) – Read general reference	
(21) – Write general reference	
(22) – Mask 4x register	
(23) – Read/Write 4x register	
(24) – Read FIFO Queue	

Functions Described

Unsupported Devices or Protocol Options

Device	Details



Revision History

Date	Driver Version	Doc Rev	Resp	Comment
11/05/03	1.00	0	RJC	Created from the template (DUR0046)
12/5/03	1.00	1	RJC	Adding to Co-op (Closing DUR0046)
2/11/03	1.00	2	JDM	Releasing