

1 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.

1.1 Connection Facts

FieldServer Mode	Nodes	Comments
Client	1 - 255	J-Bus station Address of the node(s)
Server	1 - 255	J-Bus station Address of the node(s)

2 FORMAL DRIVER TYPE

Client or Server

3 COMPATIBILITY

FieldServer Model	Compatible
FS-B35 Series	Yes
ProtoNode/ProtoAir	Yes
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
QuickServer FS-QS-20xx	No
QuickServer FS-QS-22xx	Yes

4 CONNECTION INFORMATION

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

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
MGE UPS	SITE

6 COMMUNICATIONS FUNCTIONS

6.1 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,

6.2 Read Operations Supported

FieldServer as a Client	FieldServer as a Server
(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)

6.3 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)

6.4 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	