

1 DESCRIPTION

The Spectronics driver allows the FieldServer to transfer data to and from devices over either RS-232 or RS-485 using Spectronics protocol. The FieldServer can emulate either a Server or Client.

The information that follows describes how to expand upon the factory defaults provided in the configuration files included with the FieldServer.

1.1 Connection Facts

FieldServer Mode	Nodes	Comments
Client	1	Only 1 client node allowed on Multidrop systems
Server	255	Actual electrical loading may reduce number of usable server nodes

2 FORMAL DRIVER TYPE

Serial

Client or Server

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	Yes
ProtoCessor FPC-ED2	Yes
ProtoCessor FPC-ED4	Yes

4 CONNECTION INFORMATION

Connection type: RS-232 or RS-485
(Two wire, Half-Duplex)

Baud Rates: 110 – 115200
standard baud rates only

Data Bits: 7,8

Stop Bits: 1,2

Parity: Odd, Even, **None**

Multidrop Capability: Yes

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
Spectronics	Factory

6 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

6.1 Function Codes Supported

Function Codes	Description
01	Read Discrete Output Status (0xxxx)
02	Read Discrete Input Status (1xxxx)
03	Read Output Registers (4xxxx)
04	Read Input Registers (3xxxx)
05	Force Single Coil (0xxxx)
06	Preset Single Register (4xxxx)
15	Force Multiple Coils (0xxxx)
16	Preset Multiple Registers (4xxxx)

6.2 Read Operations supported

FieldServer Data Type
Register
Flag
Digital Input
Digital Output
Analog Input
Analog Output