

1 DESCRIPTION

The DF1 driver allows the FieldServer to transfer data to and from devices over RS-232 using DF1 protocol. The FieldServer can emulate either a Server or Client.

FieldServer Mode	Nodes	Comments
Client	1	One node per port
Server	1	One node per port

2 FORMAL DRIVER TYPE

Serial
Client or Server

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x2010	Yes
FS-x2011	Yes
FSx25	Yes
FS-x30	Yes
FS-x40	Yes
SlotServer	Yes
ProtoCessor	Yes
ProtoNode	Yes

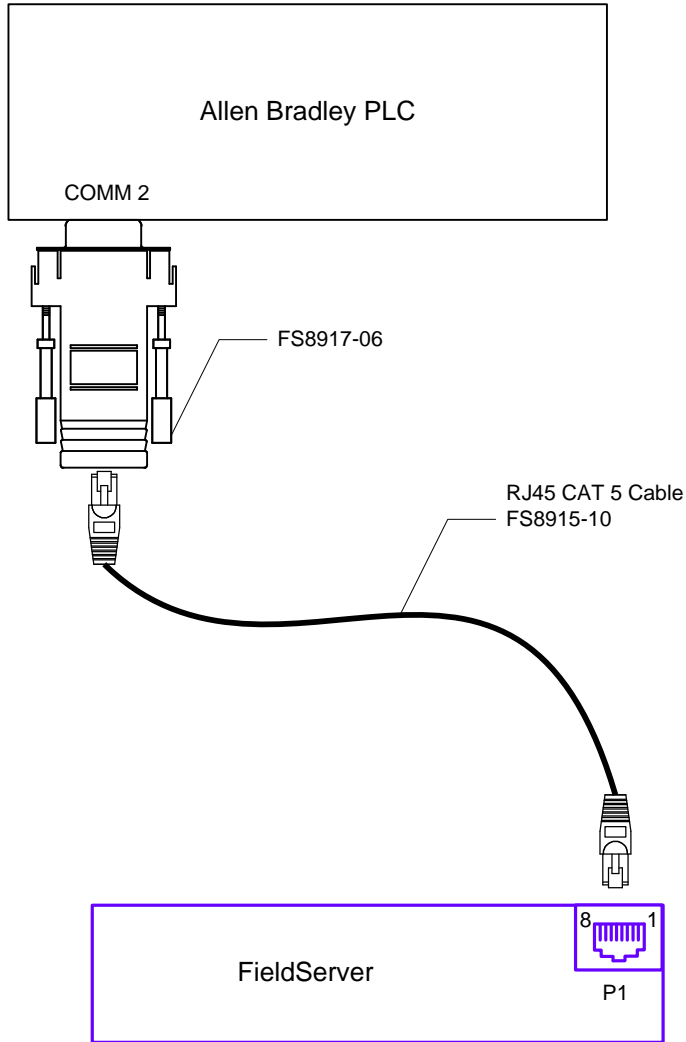
4 CONNECTION INFORMATION

Connection type: RS-232 Half Duplex
 Baud Rates: 300 to 115200; 9600 (Vendor limitation)
 Data Bits: 8 (Vendor limitation)
 Stop Bits: 1,2
 Parity: Odd, Even, None
 Multidrop Capability: No
 Error Checking: CRC, BCC (BCC recommended)

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
SLC 5/01	Factory
SLC 5/02	Factory
SLC 5/03	Factory
SLC 5/04	Factory
PLC 3	Site
PLC 5	Site

6 CONNECTION CONFIGURATIONS



FS-8917-06 Pinouts

FS Function	RJ45 Pin#	DB9F Pin#	Color
RX	1	3	White
GND	4	5	Green
TX	8	2	Blue

7 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

7.1 Data Types Supported

FieldServer Data Type	Description (or Device Data Type)
I	Input
O	Output
B	Bit
N	Integer
C	Counter
T	Timer
S	System Status
St	String
F	Float

7.2 Command Support

The following commands are supported by the FieldServer for the various PLC types.

PLC_Type	File_Type	FNC	Read	FNC	Write	Typical Command
PLC 3	N	1	Range Read	0	Range Write	N7: 3, L5
	F	1	Range Read	0	Range Write	F12: 3 L5
	B	1	Range Read	2	Bit Write	B3/4: 5 L5
PLC 5	N	1	Range Read	0	Range Write	N7: 3, L5
	F	1	Range Read	67	Typed Write	F12: 3 L5
	B	1	Range Read	26	Read Modify Write	B3/4: 5 L5
SLC5	N	A2	Protracted Typed Logical Read	AA	Protracted Typed Logical Write	N7: 3, L5
	F	A2	Protracted Typed Logical Read	AA	Protracted Typed Logical Write	B3/4: 5 L7
	B	A2	Protracted Typed Logical Read	AB	Protracted Typed Logical Write	B3/4: 5 L8
	I	A2	Protracted Typed Logical Read	-	-	I: 13, L5
	O	A2	Protracted Typed Logical Read	-	-	O: 13, L5

7.3 Unsupported Functions and Data Types

Function	Reason
Programming messages	FieldServer is a data transfer device, thus programming messages are not required