



FieldServer Driver - Ethernet FS-8704-07 Allen Bradley CSP

Description

This driver implements the Allen Bradley TCP/IP protocol, also commonly referred to as the Allen Bradley CSP protocol.

Formal Driver Type

Ethernet
Client or Server

Connection Information

Connection type: Ethernet
Ethernet Speeds Supported 10Base-T, 100Base-T¹

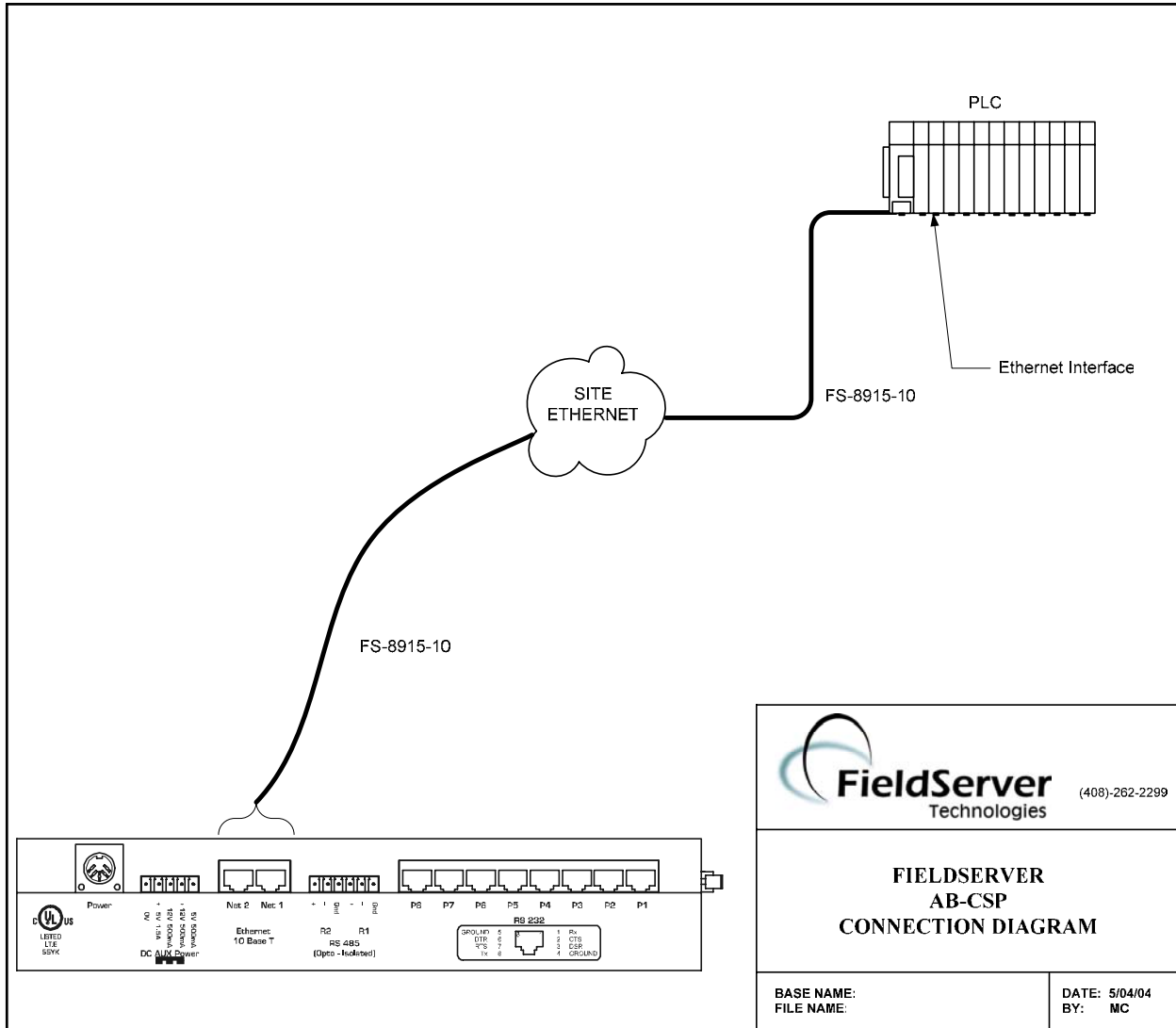
Devices tested

Device	Tested (FACTORY, SITE)
SLC5/05 Processor	Factory
WonderWare	Site

¹ Not all FieldServer models support 100BaseT. Consult the appropriate instruction manual for details of the Ethernet speed supported by specific hardware.



Connection configurations





Communications functions - Supported functions at a glance:

Data Types Supported

FieldServer Data Type	Description (File Type)
N	INTEGER
B	BINARY
F	FLOAT
O	OUTPUT
I	INPUT
T	TIMER
S	STATUS

Read Operations supported

Allen Bradley commands can be specified directly using the AB_Command map descriptor field, or can be implied using the Node field PLC_Type. The AB_Command will override any PLC_Type specifiers.

Command	AB_Command	PLC_Type	File_Type
FieldServer as a Client			
Unprotected Read	Unprotected	-	All file types
Protected Typed Logical Read	Protected_Typed_Logical	-	All file types
Typed Read	Typed	-	All file types
Protected Typed Logical Read	-	SLC5	N, F, B, I, O
Word Range Read	-	PLC3/PLC5	N, F, B
FieldServer as a Server			
Unprotected Read	Not Used	Not Used	All file types
Protected Typed Logical Read	Not Used	Not Used	N, F, B, I, O
Word Range Read	Not Used	Not Used	N, F, B



Write Operations supported

Command	AB_Command	PLC_Type	File_Type
FieldServer as a Client			
Unprotected Write	Unprotected	-	All file types
Typed Write	Typed	-	All file types
Protected Typed Logical Write	-	SLC5	N, F, B
Word Range Write	-	PLC5	N
Typed Write	-	PLC5	F
Read Modify Write	-	PLC5	B
Word Range Write	-	PLC3	N, F
Bit Write	-	PLC3	B
FieldServer as a Server			
Unprotected Write	Not Used	Not Used	All file types
Protected Typed Logical Write	Not Used	Not Used	N, F, B
Word Range Write	Not Used	Not Used	N
Typed Write	Not Used	Not Used	F
Read Modify Write	Not Used	Not Used	B
Word Range Write	Not Used	Not Used	N, F
Bit Write	Not Used	Not Used	B

Unsupported Data Types

Data Type	Description (File Type)
C	Counter
ST	ASCII String
T	Timer



Revision History

Date	Resp	Format	Driver Ver.	Doc. Rev.	Comment
4/15/03					Created DFS
4/15/03					Updated DFS
5/12/03	DBW		1.00	1	Cleaning up DFS
7/24/03	JD		1.00	2	Releasing
9/26/03	JD		1.00	3	Minor edits.
5/6/04	Meg	Meg	1.00	4	Updated formatting. Added connection diagram. Added new revision table.
6/14/04	JD		1.00	5	Releasing
8/27/04	Meg	Meg	1.00	6	Updated Ethernet connection information – DUR0416.
12/27/04	Meg	Meg	1.00	7	Minor changes to table formatting. Removed alphanumeric characters from version numbering.
12/30/04	JD		1.00	8	Releasing