



Driver Version: 1.06
Document Revision: 3

FieldServer Driver - Fieldbus FS8700-24 ControlNet

Description

The ControlNet driver allows the FieldServer to transfer data to and from devices using ControlNet protocol. The SST-5136-CN-ISA Communications Adapter card is included with the FieldServer. The FieldServer can communicate using un-scheduled transfers with PCCC messages embedded in the ControlNet messages.

When the FieldServer originates PCCC messages to communicate with PLC5 controllers, it uses connected messages. This provides fast reliable communication to the other node. When another device originates PCCC messaging, the FieldServer will emulate a PLC5 controller supporting connected or unconnected messages to files N7 through to N32..

Formal Driver Type

Fieldbus

Compatibility Matrix

FieldServer Model	Compatible with this driver
FS-x2010	No
FS-x2011	No
FS-x40	Yes
FS-x30	No

Connection Information

Connection type: Proprietary
Baud Rates: 5 Mbit/s
Hardware interface: SST-5136-CN-ISA

Proprietary Physical Interfaces Supported

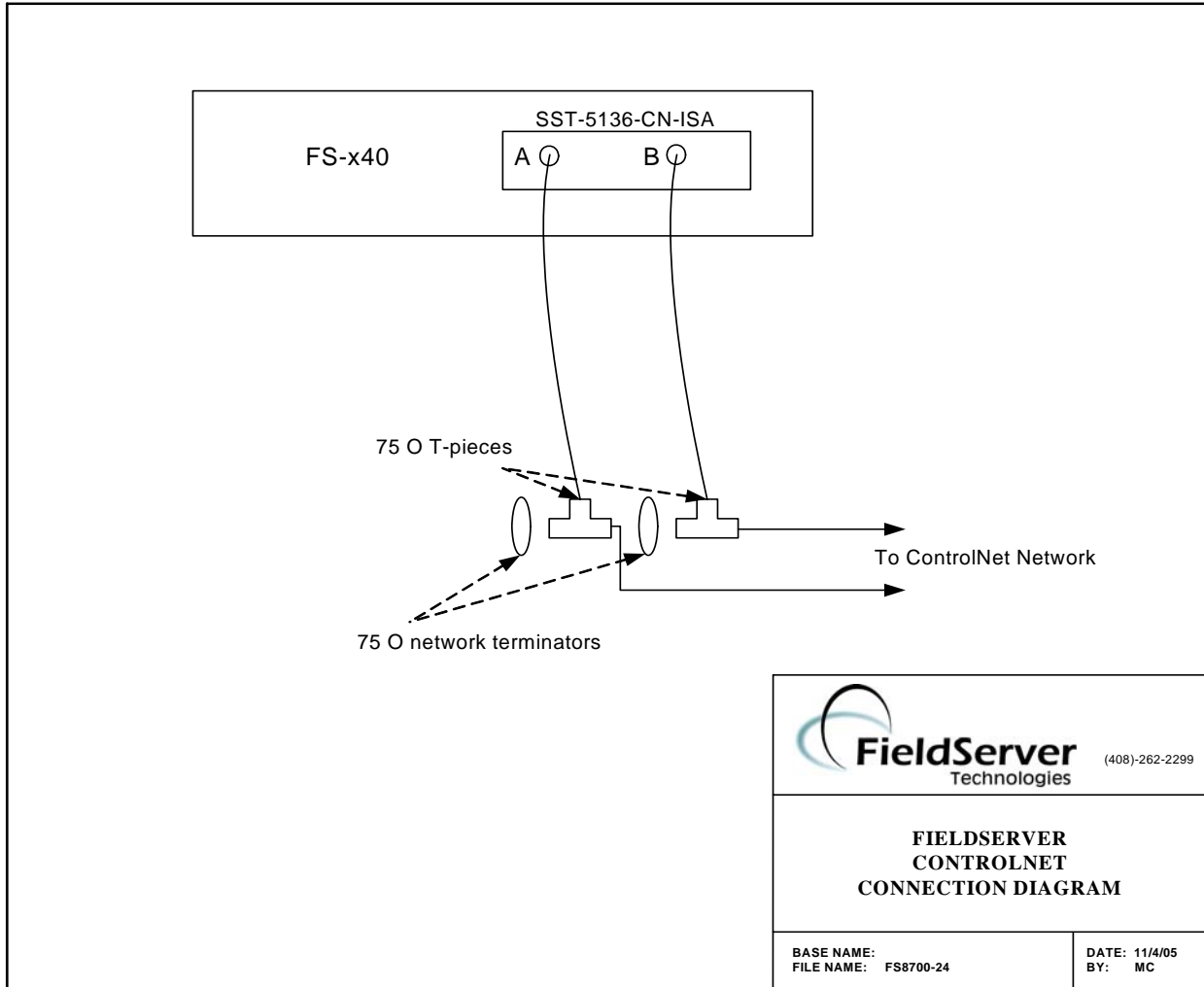
Fieldserver Model	Adapter Model #	Vendor	Physical Medium
FS-x40	SST-5136-CN-ISA	Woodhead Canada	75Ω Co-ax

Devices tested

Device	Tested (FACTORY, SITE)
SST-5136-CN-ISA	Factory



Connection configurations



Connection Notes

Recommended cable is RG-6 quad shield Co-ax.



Communications functions - Supported functions at a glance:

Data Types Supported

FieldServer Data Type	Description (or Device Data Type)
16-bit Integers (Signed and Unsigned)	File arranged as words
32-bit Floats	File arranged as floats
Bit	File arranged as bits

Data Operations supported

FieldServer as a Client	FieldServer as a Server
Read file data	Provide file data to a Scanner
Write file data	Accept changes to file data from a Scanner

Unsupported Functions and Data Types

Function	Reason
Programming messages	FieldServer is a data transfer device, and as such, programming messages are not required
Scheduled Transfers	



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