



**Driver Version: 1.00**  
**Document Revision: 4**

## **FieldServer Driver**

### **FS-8700-128**

### **Safetran SCS-128**

#### **Description**

The Safetran-SCS-128 driver allows the transfer of data to and from devices over RS-232 SCS-128 protocol. Vital Harmon Logic Controller (VHLC) supports SCS-128 protocol. SCS-128 80938-098 Rev A04 is the basis of the Safetran-SCS 128 driver. The FieldServer can be configured as a Client or Server.

<b>Fieldserver Mode</b>	<b>Nodes</b>	<b>Comments</b>
Client	1	Only 1 virtual client per port allowed on multidrop systems, which can poll 127 server devices
Server	127	This is a protocol limit, maximum devices can be polled by Client

#### **Formal Driver Type**

Serial  
Client or Server

#### **Compatibility Matrix**

<b>FieldServer Model</b>	<b>Compatible with this driver</b>
FS-x2010	Yes
FS-x2011	Yes
FS-x30	Yes
FS-x40	Yes

#### **Connection Information**

**Connection type** RS-232

**Baud Rate\*** 300 ,600, 1200, 2400, **9600** (Vendor limitation)  
FieldServer does not support baud 75 or 150.

**Data Bits\*** **8** (Vendor limitation)

**Stop Bits\*** **1** (Vendor limitation)

**Parity\*** **Even** (Vendor limitation)

**Multidrop Capability** Yes

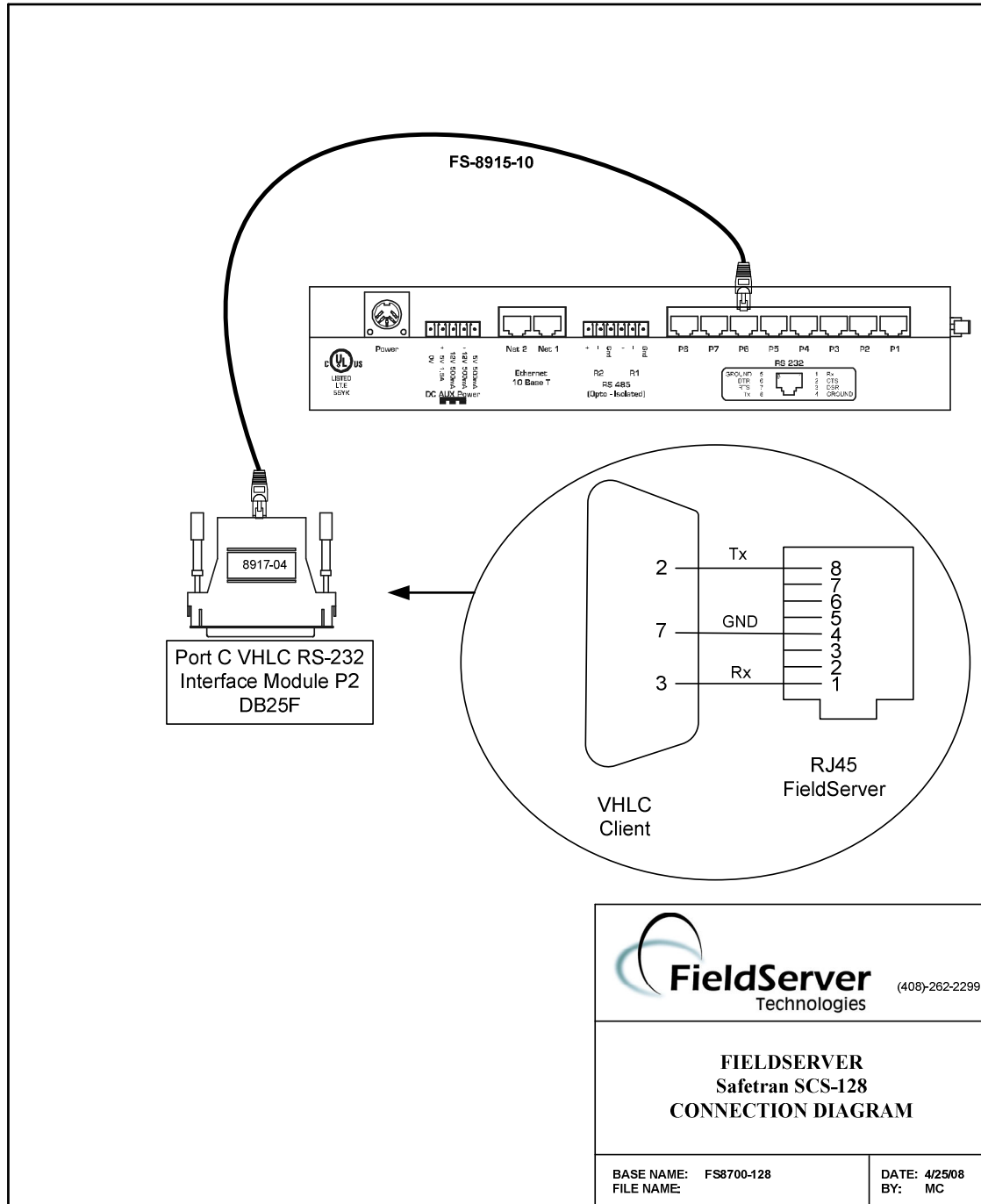
#### **Devices tested**

<b>Device</b>	<b>Tested (FACTORY, SITE)</b>
Safetran-SCS	Site



Connection configurations

The FieldServer is connected to the VHLC as shown in connection drawing.



**FieldServer** Technologies (408)-262-2299

**FIELDSEVER**  
Safetran SCS-128  
CONNECTION DIAGRAM

BASE NAME: FS8700-128	DATE: 4/25/08
FILE NAME:	BY: MC



**Communications functions - Supported functions at a glance:**

**Data Types Supported**

FieldServer Data Type	Description (or Device Data Type)
Digital Input	Indications
Digital Output	Controls

**Read Operations supported**

FieldServer as a Client	FieldServer as a Server
Read Binary Status via:	Provide Binary Status for:
Poll	Poll
Recall	Recall
Indication Acknowledge	Accept Indication Acknowledge

**Write (Control) Operations supported**

FieldServer as a Client	FieldServer as a Server
Write Binary Commands:	Accept Binary Commands:
Control Command	Verify Control Command
Execute	Execute Acknowledge and apply

**Special Operations supported**

FieldServer as a Client	FieldServer as a Server
Transmit cutoff	Transmit cutoff

**Unsupported Functions and Data Types**

Function	Reason
Station testing functions	These are modem testing and calibration functions, not required for FieldServer.
Change Baud Debug Recorders	These functions are not implemented in the Protocol, however debugging and recording can be achieved using diagnostic tools from FieldServer.

**Unsupported Devices or Protocol Options**

Device	Details
Devices operates on baud rate 75 or 150	FieldServer does not support these baud rates