

1 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.

1.1 Connection Facts

FieldServer Mode	Nodes	Comments
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

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	No
ProtoCessor FPC-ED2	No
ProtoCessor FPC-ED4	No

4 CONNECTION INFORMATION

Connection type: RS-232
 Baud Rates: 300; 600; 1200; 2400; 4800; 9600 (Vendor limited)
 FieldServer does not support baud 75 or 150
 Data Bits: 8 (Vendor limited)
 Stop Bits: 1 (Vendor limited)
 Parity: Even (Vendor limited)
 Multidrop Capability: Yes

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
Safetran-SCS	SITE

6 COMMUNICATIONS FUNCTIONS-SUPPORTED FUNCTIONS AT A GLANCE

6.1 Data Types Supported

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

6.2 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

6.3 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

6.4 Special Operations Supported

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

6.5 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.

6.6 Unsupported Devices or Protocol Options

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