

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.

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

Formal Driver Type

Serial, Client or Server

Compatibility

FieldServer Model	Compatible
ProtoCessor	No
ProtoCarrier	No
ProtoNode	No
ProtoAir	No

FieldServer Model	Compatible
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
QuickServer FS-QS-20xx	Yes
QuickServer FS-QS-22xx	Yes
QuickServer FS-QS-3x10-F	Yes

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

Devices Tested

Device	Tested (Factory, Site)
Safetran-SCS	Site

Communication Functions

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

Function	Reason
Devices operates on baud rate 75 or 150	FieldServer does not support these baud rates