FS-8705-12 – Federal Signal Ultravoice – Electronic siren Controllers Serial Protocol

DATASHEET – Rev 1

DESCRIPTION

The Federal Signal Ultravoice (FSU) - Electronic Siren Controllers (ESC) Serial Driver allows the FieldServer to transfer data to and from devices over RS232 using Federal Signal Ultravoice - Electronic Siren Controllers Serial Driver protocol.

The FieldServer can emulate a Client. As a client the driver can poll for status information and send commands to the FSU controller.

The driver is a serial driver using a RS232 serial port to connect between the FieldServer and the CHC-MF. An RS485 port together with a converter can also be used for the connection.

Server functionality is provided only to support our ongoing quality assurance program by facilitating automated testing of the driver. It is not documented or supported. If required please contact the FST sales group to discuss your requirements.

CONNECTION FACTS

This table summarizes the number of connections this driver supports for each of its modes.

FIELDSERVER MODE	NODES	COMMENTS
Client	1	Only 1 FSU-ESC node per connection
Server	0	Not supported or documented.

FORMAL DRIVER TYPE

Serial
Client

FS-8705-12- Federal Signal Ultravoice

COMPATIBILITY

FIELDSERVER MODEL	COMPATIBLE
FS-x2010	Yes
FS-x2011	Yes
FS-x40	Yes
FS-X30	Yes

CONNECTION INFORMATION

Connection Type: EIA485

Baud Rates: Driver Supports : 110; 300; 600; 1200; 2400; 4800; **9600**; 19200; 28800; 38400; 57600; 115200 Baud
                       FA403 Serial Receiver supports: 9600

Data Bits: Driver Supports : 7,**8**
                       FSU-ESC Serial Receiver supports: 8

Stop Bits: Driver Supports : **1**,2
                       FSU-ESC Serial Receiver supports: 1

Parity: Driver Supports : Odd, Even, **None**
                       FSU-ESC Serial Receiver supports: None
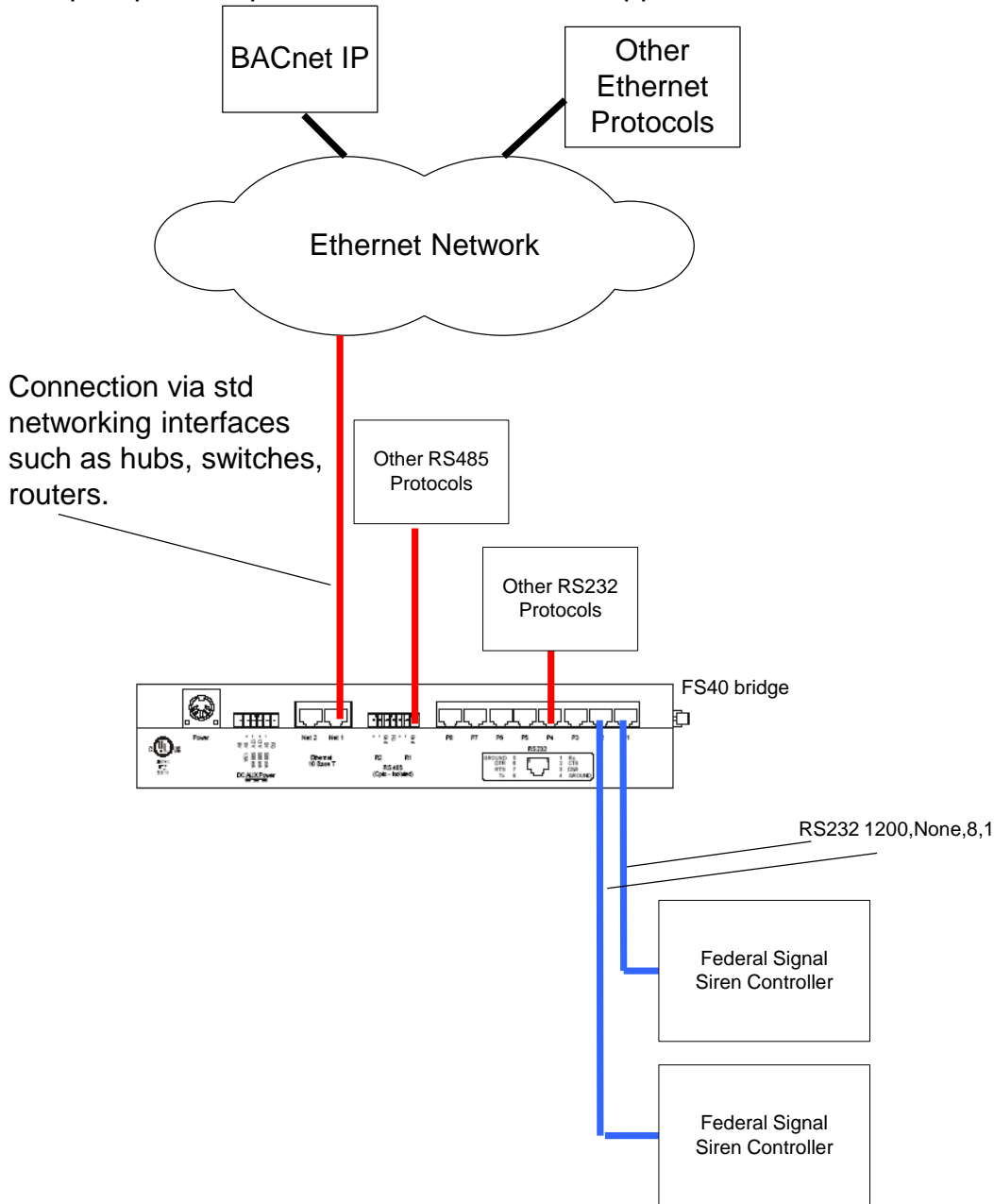
Hardware Interface: N/A

Multidrop Capability: No

DEVICES TESTED

DEVICE	TESTED (FACTORY, SITE)
FSU-ESC Serial Receiver	Customer Site

CONNECTION CONFIGURATIONS

Multiple FSU-ESC Systems can be connected. One per port.
Multiple upstream protocols and connection supported. See list of FieldServer Drivers.

BACnet IP

Other Ethernet Protocols

Ethernet Network

Connection via std networking interfaces such as hubs, switches, routers.

Other RS485 Protocols

Other RS232 Protocols

FS40 bridge

RS232 1200,None,8,1

Federal Signal Siren Controller

Federal Signal Siren Controller

COMMUNICATION FUNCTIONS

Supported Datatypes

ARM
CANCEL
VOICE
DISARM
ZONEA-D
REPORT
MSG_A-P
WAIL
P_WAIL
A_WAIL
STEADY
P_STEADY
A_STEADY
PHASE+-
LOWPWR
CODE01-CODE50

Status Items Monitored with 'Report' Function

Siren Type
Function State (Code running)
Unit ID
Amplifier status for each amp in the unit depending on siren type*
Audio A*
Audio B*
Master Current*
Battery *
Charger
AC Power
Control Box Intrusion
Battery Box Intrusion
False Alarm/Local Activation*
Rotation*

CUSTOMER SUPPORT

Federal Signal Ultravoice Driver for FieldServer was developed by Chipkin, and we are proud to provide support for our products. For technical support, sales and customer service, please call us at 1 (866) 383-1657.

Thanks for choosing Chipkin's products and integration services to meet your building and industrial automation requirements!

Chipkin™ is a building and industrial automation protocol expert. We develop, configure, install and support gateways (protocol converters), data loggers and remote monitor and controlling applications. Founded in October 2000, Chipkin provides expert solutions for converting BACnet®, Modbus®, and LonWorks®—to name just a few—and enabling interfaces for HVAC, fire, siren, intercom, lighting, transportation and fuel systems. The high-quality products we offer (including those from other vendors) interface with Simplex™, Notifier™, McQuay™, GE™ and many others—so you can rest assured that we will select the most appropriate solution for your application.

With Chipkin you are buying a solution. Our configuration expertise in this field combined with free BACnet and other tools ensure your success; and our customer support via phone, email and remote desktop tools means that we are there when you need us. Chipkin is a small responsive company, and we live or die by the quality of our service—and with offices in two time zones—we can provide support when you need it. Give us a call now!

Sales and Customer Service

Toll Free: +1 866 383 1657
Email: salesgroup1@chipkin.com

REVISION HISTORY

This table summarizes the update history for this protocol data sheet. Please contact Chipkin by phone or email for an updated version of this document.

DATE	RESP.	DRIVER VERSION	DOCUMENT REVISION	COMMENTS
12 May 2004	PMC	0.00	0	Created
7 Jun 2021	YC	0.00	1	Updated to latest template