1 DESCRIPTION

The Hochiki Serial driver allows the FieldServer to record data from Hochiki FireNET panels over RS-232 as per "Serial Port Spec Issue 2.37.pdf". There is no active polling by this driver; the communications are one-way through the panel's PC port (J5). The FieldServer acts as a Client; receives messages and records the status of a Panel. The panel MUST output messages in ASCII format in English.

This driver is not capable of emulating a Hochiki panel.

The Hochiki FireNET panel can be a standalone panel or can be part of network. Each Fire Alarm Panel on Network is considered as a Node. 64 Nodes can exist on one network.

Hochiki panel sends the events to the PC (J5) port. The FieldServer captures these events in text form, parses and stores them in Data Arrays. These Data Arrays can be monitored by third party tools. Since the FieldSever does not actively poll for data, the accuracy and timeliness of the stored data is limited to the frequency of update messages that the Hochiki Fire Panel issues.

Please note that the FieldServer can be configured with a large number of points. The point limits purchased with the FieldServer prevent the entire database from being accessed in any one application. It is therefore strongly advisable to ensure that only the point addresses of interest are configured, and that the FieldServer is purchased with the correct point count.

The types of Hochiki panel messages supported by this driver are summarized later in the manual. A detailed table shows each type of message the FieldServer recognizes and the effect that it has on the status of the points in the Data Array.

FieldServer Mode	Nodes	Comments
Client	1	Only one Hochiki PC (J5) connection per port.
Server	0	This driver can not be configured as Server

2 FORMAL DRIVER TYPE

Serial

Passive Client

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x2010	Yes
FS-x2011	Yes
FSx25	Yes
FS-x30	Yes
FS-x40	Yes
SlotServer	No
ProtoCessor	No
ProtoNode	No

4 CONNECTION INFORMATION

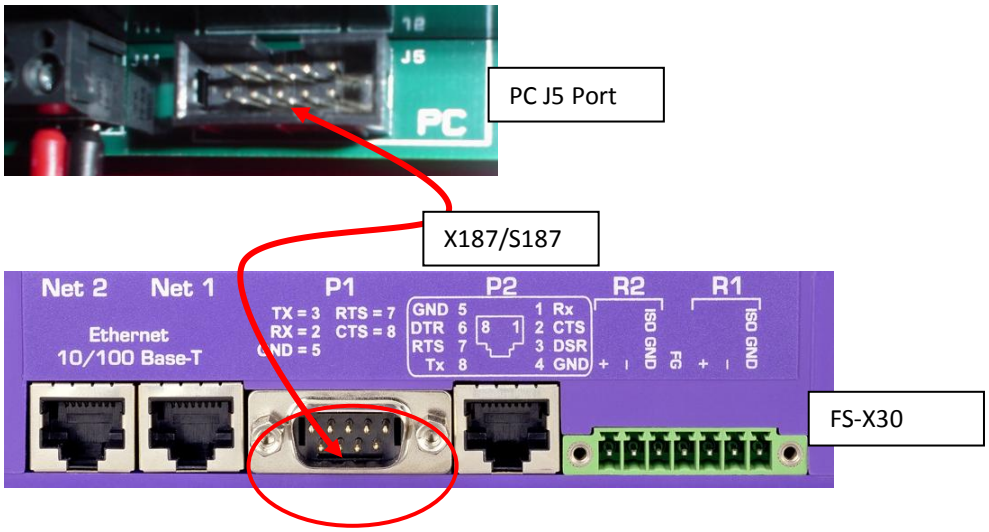
Connection type:	RS-232
Baud Rates:	19200 (Vendor limitation)
Data Bits:	8 (Vendor limitation)
Stop Bits:	1 (Vendor limitation)
Parity:	None (Vendor limitation)
Multidrop Capability	No

5 DEVICES TESTED

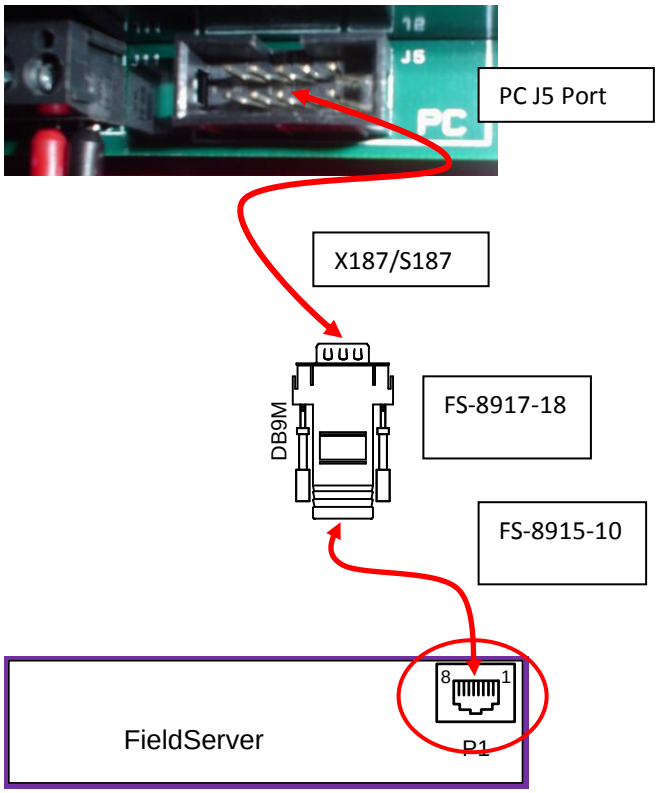
Device	Tested (FACTORY, SITE)
Hochiki FireNet 4127	Factory
Hochiki FireNET Plus	Site

6 CONNECTION CONFIGURATIONS

6.1 Connection to FS-X30



6.2 Connection to FS-X20, FS-X40



FS-8917-18 Pinouts

FS Function	RJ45 Pin#	DB9M Pin#	Color
RX	1	2	White
CTS	2	8	Brown
DSR	3	6	Yellow
GND	4	5	Green
DTR	6	1	Black
RTS	7	7	Orange
TX	8	3	Blue

7 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

7.1 Data Types Supported

FieldServer Data Type	Description (or Device Data Type)
Panel	To hold data for panel level events
Panel_Trouble	To hold data for panel level troubles
Trouble	To hold trouble data from loop devices
Alarm	To hold event data from loop devices other than troubles
Panel_Device_Trouble	To hold Trouble data from devices connected to panel but not in any loop
Panel_Device_Alarm	To hold event data from devices connected to panel but not in any loop
HeartBeat	To record heartbeat of panel

7.2 Read Operations supported

FieldServer as a passive Client listens for messages from the panel and processes the following messages

FieldServer as a Client
Heartbeat
Fire
Fire drill
Pre alarm
Security
Disablement
Supervisory
Status

FieldServer as a Client
Emergency
Auxiliary
Silence alarm
Reset
User message
Test mode
Trouble

7.3 Unsupported Functions and Data Types

Function	Reason
Configuration and programming messages	FieldServer is a data transfer device, and as such, configuration and programming messages are not required
Zone information	A device can belong to multiple zones, however, only the primary zone is listed in the message. This severely limits the accuracy of zone data based on event generated messages, and therefore will not be recorded.

7.4 Unsupported Devices or Protocol Options

Device	Details
Configuration and programming messages	Use vendors config tools to configure and program the panel