FieldServer Protocol Driver Sheet
Hochiki Serial Driver

FS-8700-137 Version: 1.00 / Rev. 5.B

1 DESCRIPTION

The Hochiki Serial driver allows the FieldServer to record data from Hochiki FireNET panels over RS-232. 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.

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 in the Hochiki Driver 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.

1.1 Connection Facts

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

2 FORMAL DRIVER TYPE

Serial

Passive Client

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible
FS-B30	Yes
SlotServer	No
ProtoNode	No
QuickServer FS-QS-10xx	Yes
QuickServer FS-QS-12xx	Yes
ProtoCessor FPC-ED2	No
ProtoCessor FPC-ED4	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 COMMUNICATIONS OPTIONS SUPPORTED

6.1 Supported Data Types

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.

6.2 Supported Read Operations

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

FieldServer as a Client	FieldServer as a Server
Heartbeat	Emergency
Fire	Auxiliary
Fire drill	Silence alarm
Pre alarm	Reset
Security	User message
Disablement	Test mode
Supervisory	Trouble
Status	

6.3 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.

6.4 Unsupported Devices or Protocol Options

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