

Description

The Firecom Protocol driver allows the FieldServer to capture data from Firecom devices over RS-232 using the Firecom LSN 2000 ASCII protocol. The Firecom system provides detection, monitoring and control of various fire and safety devices manufactured by the Firecom Inc. (www.firecominc.com).

The FieldServer can emulate a client Firecom device which processes unsolicited messages from the Firecom panel. The FieldServer cannot send any messages to a Firecom device and is therefore a passive client only device.

The driver supports messages sent from the Firecom Life Safety Net 2000 panel. The FieldServer, connected to a single Firecom panel, can process any messages received on that connection across any node, slot and address ranges depending on the configuration used and number of data points supported. The valid ranges of end devices are shown in the table below.

| FieldServer Mode | Nodes | Slot | Addresses |
|------------------|---------|------|-----------|
| Passive Client | 0 - 255 | 0-9 | 0 - 255 |

Formal Driver Type

Serial, Passive Client

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: 9600 (Vendor Limitation)

Data Bits: 8 (Vendor Limitation)

Stop Bits: 1 (Vendor Limitation)

Parity: None

Multidrop Capability: No

Proprietary Physical Interfaces Supported

Devices Tested

| Device | Tested (Factory, Site) |
|------------------|------------------------|
| Firecom LSN 2000 | Factory |

Communication Functions

Data Types Supported

The driver does not transfer typed data.

Read Status Commands Supported

| FieldServer as a Passive Client |
|---------------------------------|
| Supervisory |
| Supervisory Reset |
| Alarm |
| Alarm Reset |
| Trouble |
| Trouble Reset |
| Warden Station Alarm |
| Warden Station Alarm Reset |
| System Restart |
| All Nodes Offline |

Write Operations Supported

This driver does not support any writing operations.

Unsupported Functions and Data Types

| Function | Reason |
|-------------------------------|---------------------------------|
| Supervisory Acknowledge | Not required. Local event only. |
| Supervisory Reset Acknowledge | |
| Alarm Acknowledge | |
| Alarm Reset Acknowledge | |
| Trouble Acknowledge | |
| Trouble Reset Acknowledge | |
| Pre Alarm | |
| Pre Alarm Acknowledge | |

Functions Described

The FieldServer driver receives messages on the configured connection and monitors the messages for supported status codes. If a supported status code is detected the relevant data array is updated with the status according to the configured Map Descriptors.

Unsupported Devices or Protocol Options

All unsupported status codes are simply ignored by the FieldServer.