

### 1 DESCRIPTION

The Safe-Fire driver allows the FieldServer to transfer data to and from devices using Safe-Fire protocol. The FieldServer can only emulate a master.

As Master the number of devices supported is limited to 32 devices. When the Safe-Fire gateway acts as a master, it polls the slave devices. It will request information from the slave devices and receive and process only the expected responses.

FieldServer Mode	Devices	Comments
Master	32	Maximum number of slave devices available on Safe-Fire network.
Server	0	This driver cannot be configured as Server.

### 2 FORMAL DRIVER TYPE

Serial

Client only

### 3 COMPATIBILITY

FieldServer Model	Compatible
FS-B35 Series	No
ProtoNode	No
ProtoAir	Yes
QuickServer	No

### 4 CONNECTION INFORMATION

Connection Type: RS-485/RS-232  
 Baud Rates: 19200 (fixed)  
 Data Bits: 8 (fixed)  
 Stop Bits: 2 (fixed)  
 Parity: None (fixed)  
 Multidrop Capability: Yes

### 5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
CirrusPro 200D	Factory, Site

### 6 COMMUNICATION FUNCTIONS

The FieldServer's BIAS register should be set to 'Enable'.

#### 6.1 Supported Requests

Safe-Fire Request Types	Description
Fire-Levels	Detector's Current Fire-Levels for all 4 pipes
Fault-Status	Detector's Current Faults
Air-Flow	Detector's Current Air Flow Values for all 4 pipes
Particle-Level	Detector's Current Particle Level and Gain Setting for all 4 pipes

#### 6.2 Supported Read Operations

Master	Slave
Read Safe-Fire Requests	N/A

#### 6.1 Supported Write (Control) Operations

Master	Slave
N/A	N/A

#### 6.2 Unsupported Functions/Data Types

Function	Reason
Detector time and date, detector text, detector zone/pipe text, detector alarm text, zone/pipe currently being scanned	Function not used to transfer general data