Safe-Fire-Detection

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.

Connection Facts

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

Formal Driver Type

Serial, Client only

Compatibility

FieldServer Model	Compatible	FieldServer Model	Compatible
ProtoCessor	No	QuickServer FS-QS-10xx	Yes
ProtoCarrier	No	QuickServer FS-QS-12xx	Yes
ProtoNode	No	QuickServer FS-QS-20xx	Yes
ProtoAir	No	QuickServer FS-QS-22xx	Yes
		QuickServer FS-QS-3x10-F	Yes

Connection Information

Connection Type: RS-232 or RS-485

Baud Rates: 19200 (fixed)

Data Bits: 8 (fixed)

Stop Bits: 2 (fixed)

Parity: None (fixed)

Multidrop Capability: Yes

Devices Tested

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

Communication Functions

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

Requests Supported

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

Read Operations Supported

FieldServer as a Master	FieldServer as a Slave
Read Safe-Fire Requests	N/A

Write (Control) Operations Supported

FieldServer as a Master	FieldServer as a Slave
N/A	N/A

Unsupported Functions and 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