

1 DESCRIPTION

The VESDA driver allows the FieldServer to read data from VESDA LaserPLUS controllers (FAS or FD type) via the VESDA High Level Interface (HLI) communications module, using RS-232. The FieldServer can be used only as a Client with this driver, and operates in the HLI Master/Slave mode.

1.1 Connection Facts

Fieldserver Mode	Nodes	Comments
Client	1	1 HLI can be connected to each RS232 port
Server	nil	Not applicable

NOTE: If a 1400 series HLI is being used, please consider using the FieldServer Modbus RTU driver instead of the VESDA driver.

2 FORMAL DRIVER TYPE

Serial
Client Only

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x30	Yes
SlotServer	Yes
ProtoNode	Yes
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
ProtoCessor FPC-ED2	No
ProtoCessor FPC-ED4	Yes

4 CONNECTION INFORMATION

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

5 PROPRIETARY PHYSICAL INTERFACES SUPPORTED

Fieldserver Model	Adapter Model #	Vendor	Physical Medium
X30	VESDA HLI Note: both LaserPLUS FAS (First Alarm Sector) and FD types are supported	VESDA	RS-232

6 DEVICES TESTED

Device	Tested (FACTORY, SITE)
VESDA HLI	FACTORY

7 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

7.1 Data Types Supported

FieldServer Type	Data	Description (or Device Data Type)
Analog Input		Smoke Level, Airflow
Digital Input		Pipe Status, Faults, Alarms
Analog Register		n/a
Digital Register		n/a
Analog Output		n/a
Digital Output		Remote Input commands

7.2 Read Operations supported

FieldServer as a Client	FieldServer as a Server
Read Analog / Binary Status:	n/a
Zone Update (Command 4)	n/a
Update Display Status (Command 10)	
Update Fault Status (Command 12)	
Current Fault Status (Command 13)	
Update Airflow Status (Command 16)	
Get Overall Smoke Thresholds (Command 27)	
Current Overall Smoke Thresholds (Command 28)	

7.3 Write (Control) Operations supported

FieldServer as a Client
Write Binary Commands:
Remote Input (command 6) – values: Reset, Isolate, De-Isolate, Silence, Test, Scan Start, Scan Stop
Set Smoke Thresholds (Command 29)

7.4 Unsupported Functions and Data Types

Function	Reason
Comprehensive Level Interface functionality	FieldServer is a data transfer device, and as such, programming and configuration messages are not implemented