

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 ETA232. The FieldServer can be used only as a Client with this driver, and operates in the HLI Master/Slave mode.

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

2 FORMAL DRIVER TYPE

Serial
Client Only

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x2010	Yes
FS-x2011	Yes
FSx25	Yes
FS-x30	Yes
FS-x40	Yes
SlotServer	Yes
ProtoCessor	Yes
ProtoNode	Yes

4 CONNECTION INFORMATION

Connection type: ETA232
 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
X20, X40, X30	VESDA HLI Note: both LaserPLUS FAS (First Alarm Sector) and FD types are supported	VESDA	ETA232

6 DEVICES TESTED

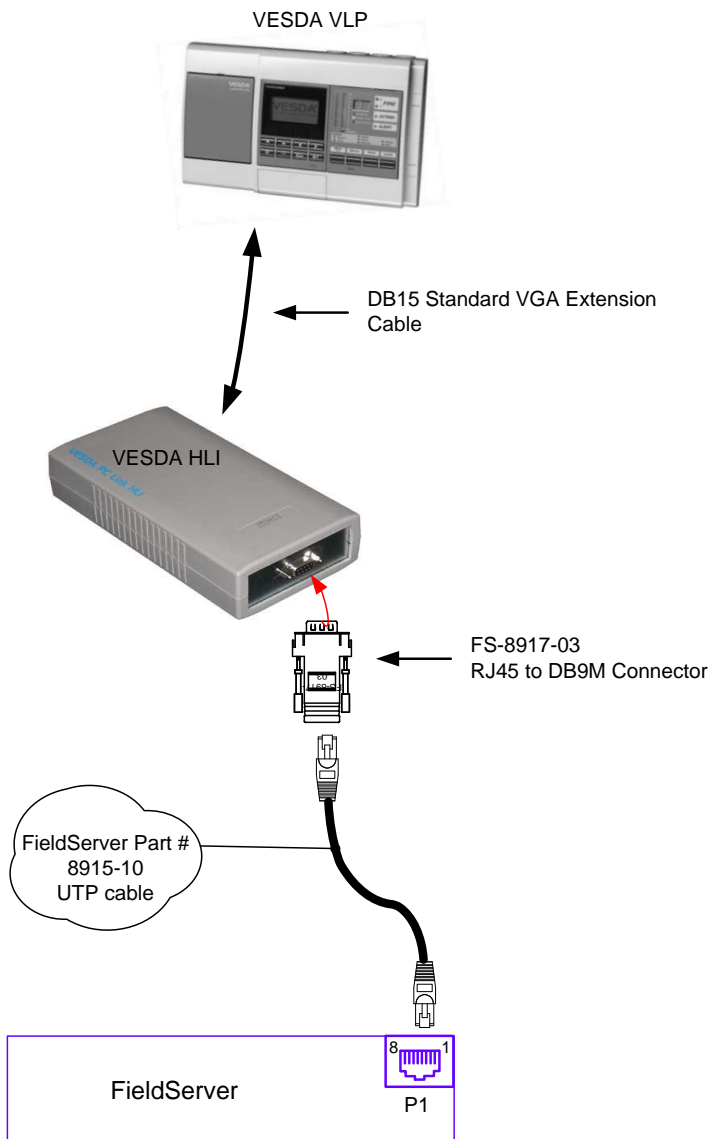
Device	Tested (FACTORY, SITE)
VESDA HLI	FACTORY

7 CONNECTION CONFIGURATIONS

Configure the Vesda according to manufacturer's instructions

FS-8917-03 Pinouts

FS Function	RJ45 Pin#	DB9M Pin#	Color
RX	1	2	White
CTS	2	8	Brown
DSR	3	6	Yellow
GND	4	5	Green
DTR	6	4	Black
RTS	7	7	Orange
TX	8	3	Blue



8 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE

8.1 Data Types Supported

FieldServer Data Type	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

8.2 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)	

8.3 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)

8.4 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