

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.

Connection Facts

FieldServer Mode	Nodes	Comments
Client	1	1 HLI can be connected to each RS-232 port
Server	-	Not applicable

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

Formal Driver Type

Serial, Client only

Compatibility

FieldServer Model	Compatible
ProtoCessor	Yes
ProtoCarrier	Yes
ProtoNode	Yes
ProtoAir	Yes

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: 19200 Baud (determined by VESDA HLI)

Data Bits: 8 (Vendor Limited)

Stop Bits: 1 (Vendor Limited)

Parity: None (Vendor Limited)

Multidrop Capability: No (Vendor Limited)

Devices Tested

Device	Tested (Factory, Site)
VESDA HLI	Factory

Communication Functions

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

Read Operations Supported

FieldServer as a Client	FieldServer as a Server
Read Analog / Binary Status:	n/a
Zone Update (Command 4) 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)	n/a

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)

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