

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 |
| FS-B35 Series | Yes |

| FieldServer Model | Compatible |
|------------------------|------------|
| QuickServer FS-QS-10xx | No |
| QuickServer FS-QS-12xx | Yes |
| QuickServer FS-QS-20xx | Yes |
| QuickServer FS-QS-22xx | 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 |