ProtoConvert Driver Sheet
Vesda

1   DESCRIPTION

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

1.1   Connection Facts

ProtoConvert 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 ProtoConvert Modbus RTU driver instead of the VESDA driver.**

2   FORMAL DRIVER TYPE

Serial

Client Only

3   COMPATIBILITY

ProtoConvert Model	Compatible
FS-B35 Series	Yes
ProtoNode/ProtoAir	Yes
ProtoConvert FS-QS-10xx	No
ProtoConvert FS-QS-12xx	Yes
ProtoConvert FS-QS-20xx	No
ProtoConvert FS-QS-22xx	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   DEVICES TESTED

Device	Tested (FACTORY, SITE)
VESDA HLI	FACTORY

6   COMMUNICATION FUNCTIONS

6.1   Data Types Supported

ProtoConvert 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

6.2   Read Operations Supported

ProtoConvert as a Client	ProtoConvert 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

6.3   Write (Control) Operations Supported

ProtoConvert 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)

6.4 Unsupported Functions and Data Types

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