

### 1 DESCRIPTION

The Genisys driver allows the transfer of data to and from devices over RS-232 Genisys protocol. Vital Harmon Logic Controller (VHLC) supports Genisys protocol. IM-188 VHLC GENISYS SOFTWARE MANUAL 100188-008 AB0.PDF is the basis of the Genisys driver. The FieldServer can be configured as a Client or Server. The Server side has been implemented only for FieldServer's quality assurance requirements.

#### 1.1 Connection Facts

FieldServer Mode	Nodes	Comments
Client	1	Only 1 virtual client per port allowed on multidrop systems
Server	1-255	This is a protocol limit, maximum device addresses pollable by Client

### 2 FORMAL DRIVER TYPE

Serial

Client or Server

### 3 COMPATIBILITY MATRIX

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

### 4 CONNECTION INFORMATION

Connection type: RS-232  
 Baud Rates: **300**; 600; 1200; 2400; 4800; 9600; (Vendor Limitation)  
 Data Bits: 8 (Vendor Limitation)  
 Stop Bits: 1,2  
 Parity: None (Vendor Limitation)  
 Multidrop Capability: Yes

### 5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
GE VHLC Vital Firmware(VLP Module) - VLPA5 FPVP v2.2 p/n:202925-002 Nonvital Firmware(ACP Module) - ACP GENISYS v2.3 p/n:202636-003	SITE

### 6 COMMUNICATIONS FUNCTIONS-SUPPORTED FUNCTIONS AT A GLANCE

#### 6.1 Data Types Supported

FieldServer Data Type	Description (or Device Data Type)
Digital Input	Indications
Digital Output	Controls

#### 6.2 Read Operations supported

FieldServer as a Client	FieldServer as a Server
Read Binary Status:	Provide Binary Status:
Poll	Poll
Recall	Recall

### 6.3 Write (Control) Operations supported

FieldServer as a Client	as a	FieldServer as a Server
Write Binary Commands:		Accept Binary Commands:
Control Command		Verify Control Command
Execute <sup>1</sup>		Execute Acknowledge and apply

### 6.4 Unsupported Functions and Data Types

Function	Reason
Date and Time	Not Required
Common Controls	Goal is achievable using control command

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<sup>1</sup> Note that as of V1.01 of the driver, it is now possible to configure the driver to execute controls only if the control value changes.