

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

FieldServer Model	Compatible
FS-B35 Series	Yes
ProtoNode/ProtoAir	Yes
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
QuickServer FS-QS-20xx	No
QuickServer FS-QS-22xx	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

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	FieldServer as a Server
Write Binary Commands:	Accept Binary Commands:
Control Command	Verify Control Command
Execute ¹	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

¹ 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.