

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.

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

Formal Driver Type

Serial, Client or Server

Compatibility

FieldServer Model	Compatible	FieldServer Model	Compatible
ProtoCessor	Yes	QuickServer FS-QS-10xx	No
ProtoCarrier	Yes	QuickServer FS-QS-12xx	Yes
ProtoNode	Yes	QuickServer FS-QS-20xx	Yes
ProtoAir	Yes	QuickServer FS-QS-22xx	Yes
		QuickServer FS-QS-3x10-F	Yes

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

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

Communication Functions

Data Types Supported

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

Read Operations Supported

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

Write (Control) Operations Supported

FieldServer as a Client	FieldServer as a Server
Write Binary Commands	Accept Binary Commands:
Control Command	Verify Control Command
Execute*	Execute Acknowledge and apply

* As of V1.01 of the driver, it is possible to configure the driver to execute controls only if the control value changes.

Unsupported Functions and Data Types

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