GE-SNP

Description

The GE-SNP Serial driver allows the FieldServer to transfer data to and from devices over either RS-232 or RS-485 using GE-SNP Serial protocol. The FieldServer can emulate either a Server or Client.

The FieldServer provides functions to read and write PLC memory and change the privilege level. Standard SNP mailbox messages are used. The driver does not support Datagram messages and cannot parse them. These messages are defined by the SNP protocol to allow multiple data types to be packed into one message. They are not commonly used by the HMI and 3rd party applications and are inconsistent with the FieldServer's Write Through and Port Expander capabilities.

The driver can expose communications statistics in a Data Array so that downstream devices can monitor them.

Connection Facts

FieldServer Mode	Nodes	Comments
Client	1	Only 1 Client node allowed on Multidrop systems
Server		

Formal Driver Type

Serial, Client or Server

Compatibility

FieldServer Model	Compatible
ProtoCessor	Yes
ProtoCarrier	Yes
ProtoNode	Yes
ProtoAir	Yes

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

Connection Information

Connection Type: RS-232 or RS-485 (Two wire, Half-Duplex)

Baud Rates: 100-19200, standard baud rates only (Vender imitation), **19200**

Data Bits: 7,**8**

Stop Bits: **1**,2

Parity: Odd, Even, **None**

Multidrop Capability: Yes

Devices Tested

Device	Tested (Factory, Site)
Series 90-30 CPU 364	Factory & Site
Intellution FIX32's SNP device driver.	Site

Propel Item: T28600-66
Revision: 2.B
Protocol Number: FS-8700-66

Communication Functions

Data Types Supported

FieldServer Data Type	Description (or Device Data Type)
Analog Input	
Digital Input	
Analog Register	
Digital Register	
Analog Output	
Digital Output	

Read Status Commands Supported

FieldServer as a Client	FieldServer as a Server
Discrete Inputs (%I)	Discrete Inputs (%I)
Discrete Outputs (%Q)	Discrete Outputs (%Q)
Discrete Temporaries (%T)	Discrete Temporaries (%T)
Discrete Internals (%M)	Discrete Internals (%M)
Genius Global Data (%G)	Genius Global Data (%G)
Analog Inputs (%AI)	Analog Inputs (%AI)
Analog Outputs (%AQ)	Analog Outputs (%AQ)
Registers (%R)	Registers (%R)
%SA Discrete	%SA Discrete
%SB Discrete	%SB Discrete
%SC Discrete	%SC Discrete
%S Discrete (%S)	%S Discrete (%S)

Unsupported Functions and Data Types

Function	Reason
Programming messages	FieldServer is a data transfer device, and as such, programming messages are not required.
Datagram messages	These messages are defined by the SNP protocol to allow multiple data types to be packed into one message. They are not commonly used by the HMI and 3rd party applications and are inconsistent with the FieldServer's Write Through and Port Expander capabilities.

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