Emerson PACSystem Connector

Devices compatible with SNP protocol.

- Name: SNP
- Version: 1.0.0.0
- Protocol: Proprietary
- Interface: Standard Serial Port
- Runtime: .Net 4.8 (Windows)
- Configuration:
    - Devices / Protocols

Overview
Supported Operands
Channels Configuration
Nodes Configuration
Points Configuration
Driver Revision History

Overview

Communication with devices compatible with SNP protocol.

Communication Driver Information	
Driver name	Snp
Assembly Name	T.ProtocolDriver.Snp
Assembly Version	1.0
Available for Linux	False
PLC types supported	GE Fanuc PLCs - 90/30 and 90/70 Series, PACSystem and VersaMax.
Interface	Serial and MultiSerial

SNP (Series Ninety Protocol) was created by GE Fanuc Automation (GE + Fanuc). Later the brand became GE Intelligent Platforms, and today the PLC line (PACSystems/VersaMax) is with Emerson.

Supported Operands

AI	Analog Input
AQ	Analog Output
G	Discrete Global Memory
I	Discrete Input
Q	Discrete Output
T	Output (Temporary) Coils
M	Internal Coils
S	System Status
R	Register Memory

Channels Configuration

Protocol Options

- **BlockSize:** Defines the maximum amount of items per group, the default value is **1000**.
- **PLC Type:** 90/30 or 90/70.
- **Level 2 password:** PLC write access authentication password.

Settings

- **Serial and MultiSerial channels:**

  Default configuration:

  DataBits: 8.

  StopBits: 1 if parity is used, 2 if no parity.
  Set the other fields according to your Serial or MultiSerial port configuration.

Nodes Configuration

Station Configuration

SlaveId: Set this field with the address of the slave device in the SNP network. They can be addressed from 1 to 247 for serial nodes, or 0 to 255 for TCP/IP nodes. The address 0 is used for the broadcast.

- **Serial channels:**

Station syntax: ***<SlaveId>***
Ex: 1

- **MultiSerial channels:**

Station syntax: ***<ComPort>;<SlaveId>***

Where : <ComPort> = COM Port of the slave device in the SNP network (default is com1).
Ex: com1;1

Points Configuration

The syntax for the SNP communication points are:

- ***%<Operand><Address>***

Operand: Indicates the memory area, the valid values are:

AI	Analog Input
AQ	Analog Output
G	Discrete Global Memory
I	Discrete Input
Q	Discrete Output
T	Output (Temporary) Coils
M	Internal Coils
S	System Status
R	Register Memory

Address: Indicates the data address in the memory area.

Ex: %R00001 (Operand = R, Address = 1)

Driver Revision History

SNP Driver Revision History	
Version	**Notes**

1.0.0.0	Initial release on new documentation standards

In this section...