

Industrial communication solutions for Windows

XSAMSECT Driver Manual

Samsung SECTOCOL-COM/N70/N700 Protocol Driver

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XSAMSECT technical specifications

General information

XSAMSECT driver allows you to connect to SAMSUNG PLCs which can communicate with a PC using the SECTOCOL-COM protocol, such as the N70 and N700 PLCs. Use 9600,N,8,1.

Command list

Read Single Contact (DI)

Description of this command:

Reads the contents (ON/OFF) stored in one external input/output (R), internal relay (M), link relay (L) or timer/counter relay (TC).

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

PLC station number (1-63)

Meaning of the DriverP6 parameter:

RCS (write this text literally, without quotes)

Meaning of the DriverP7 parameter:

Indicates the contact code:

- For CCU:
 - X = External input
 - Y = External output
 - R = Internal relay
 - L = Link relay
 - T = Timer contact
 - C = Counter contact
- For N70plus / N700plus:
 - R = External input/output
 - M = Internal relay
 - L = Link relay

Meaning of the DriverP8 parameter:

Indicates the contact number:

- Must be a 4-digit number
- First 3 digits are decimal digits (0-9)
- Last digit is an hexadecimal digit (0-F)
- Examples: 0003, 104F, 024E, 0047, etc.

Meaning of the DriverP9 parameter:

Must be empty

Values that are returned:

Value in PointValue (0) = The contact value (0=OFF/1=ON)

Read Group of Contacts (DI)

Description of this command:

Reads the contents (ON/OFF) stored in several consecutive external input/outputs (R), internal relays (M), link relays (L) or timer/counter relays (TC).

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-432

Meaning of the DriverP0 parameter:

PLC station number (1-63)

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Meaning of the DriverP6 parameter:

RCC (write this text literally, without quotes)

Meaning of the DriverP7 parameter:

Indicates the data code:

- For CCU:
- X = External input
- Y = External output
- R = Internal relay
- L = Link relay
- T = Timer contact
- C = Counter contact
- For N70plus / N700plus:
- R = External input/output
- M = Internal relay
- L = Link relay

Meaning of the DriverP8 parameter:

Indicates the starting data address:

- Must be a 4-digit number
- All digits are decimal digits (0-9)
- Examples: 0500, 0186, 0020, etc.

Meaning of the DriverP9 parameter:

Indicates the ending data address:

- Must be equal or greater than the starting data address
- Must be a 4-digit number
- All digits are decimal digits (0-9)
- Examples: 0501, 0187, 0021, etc.

Values that are returned:

Value in PointValue (0) = Bit 0 of first data word returned

Value in PointValue (1) = Bit 1 of first data word returned

Value in PointValue (2) = Bit 2 of first data word returned

- ...

Value in PointValue (16) = Bit 0 of second data word returned

- ...

Read Group of Data Registers (AI)

Description of this command:

Reads the contents stored in data registers (W).

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-27

Meaning of the DriverP0 parameter:

PLC station number (1-63)

Meaning of the DriverP6 parameter:

RD (write this text literally, without quotes)

Meaning of the DriverP7 parameter:

Indicates the register code:

- For CCU:
- D = Data register
- L = Link register
- For N70plus / N700plus:
- W = Data register

Meaning of the DriverP8 parameter:

Indicates the starting register address:

- Must be a 5-digit number
- All digits are decimal digits (0-9)
- Examples: 00500, 00186, 00020, etc.

Meaning of the DriverP9 parameter:

Indicates the ending register address:

- Must be equal or greater than the starting register address
- Must be a 5-digit number
- All digits are decimal digits (0-9)

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- Examples: 00501, 00187, 00021, etc.

Values that are returned:

Value in PointValue (0) = First register returned

Value in PointValue (1) = Second register returned

- ...

Error messages

The following list shows the possible error messages that can be returned by the driver during a failed communication in the 'Status' property.

[1005] DRIVER (Internal): Invalid driver stage
[1300] PROTOCOL (Timeout): No answer
[1421] PROTOCOL (Format): Negative acknowledge received from device
[1429] PROTOCOL (Format): Unknown response
[1433] PROTOCOL (Format): Validation error in device response
[2001] CONFIG (DataType): Analog outputs are not supported by this driver
[2140] CONFIG (NumValues): Only one contact can be requested
[2156] CONFIG (NumValues): Too many contacts requested (max=432)
[2167] CONFIG (NumValues): Too many registers requested (max=27)
[3026] CONFIG (P0): Invalid device address (1-63)
[7000] CONFIG (P8): Address length must be 4
[7007] CONFIG (P8): Starting address length must be 4
[7008] CONFIG (P8): Starting address length must be 5
[7500] CONFIG (P9): Ending address length must be 4
[7501] CONFIG (P9): Ending address length must be 5
[7504] CONFIG (P9): Must be empty
[8019] CONFIG (Remote): Address error
[8031] CONFIG (Remote): BCC error
[8035] CONFIG (Remote): Busy error
[8082] CONFIG (Remote): Data error
[8109] CONFIG (Remote): Device returned unknown error
[8143] CONFIG (Remote): Format error
[8147] CONFIG (Remote): Frame error
[8214] CONFIG (Remote): Missing data error
[8239] CONFIG (Remote): Not supported error
[8258] CONFIG (Remote): Parameter error
[8265] CONFIG (Remote): PLC mode error
[8273] CONFIG (Remote): Procedure error
[8363] CONFIG (Remote): Wack error

Supported devices

This driver can communicate with these devices, but is not necessarily limited to this list:

SAMSUNG N70 PLC
SAMSUNG N700 PLC
SAMSUNG SECTOCOL-COM Compatible PLC

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