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XSCD80 Driver Manual

Caipe SCD 80 Programmable Controller Driver

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XSCD80 technical specifications

General information

XSCD80 driver allows you to connect to BELLPLAST S.R.L.'s CAIPE SCD 80 and SCD-80 Series 95 programmable controllers.

Important note: You should disconnect the DTR signal to avoid entering programming mode every time the port is initialized.

Command list

Read Random Low Memory 8-Bit Analog Variables

Description of this command:

Reads consecutive analog variables as bytes from low memory.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

-1

Meaning of the DriverP2 parameter:

0

Meaning of the DriverP3 parameter:

0

Meaning of the DriverP6 parameter:

Indicates the random addresses of each requested variable. Each address must be delimited by ',' characters and finished with a ';' character, as in the following example: 400,404,428;

Read Random Low Memory 16-Bits Analog Variables

Description of this command:

Reads consecutive analog variables as 16-bits unsigned integers from low memory.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

-1

Meaning of the DriverP2 parameter:

1

Meaning of the DriverP3 parameter:

0

Meaning of the DriverP6 parameter:

Indicates the random addresses of each requested variable. Each address must be delimited by ',' characters and finished with a ';' character, as in the following example: 400,404,428;

Write Random Low Memory 8-Bit Analog Variables

Description of this command:

Writes consecutive analog variables as bytes to low memory.

Methods used to run this command:

Analog Output

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Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

-1

Meaning of the DriverP2 parameter:

0

Meaning of the DriverP3 parameter:

0

Meaning of the DriverP6 parameter:

Indicates the random addresses of each affected variable. Each address must be delimited by ',' characters and finished with a ';' character, as in the following example: 400,404,428;

Write Random Low Memory 16-Bits Analog Variables

Description of this command:

Writes consecutive analog variables as 16-bits unsigned integers to low memory.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

-1

Meaning of the DriverP2 parameter:

1

Meaning of the DriverP3 parameter:

0

Meaning of the DriverP6 parameter:

Indicates the random addresses of each affected variable. Each address must be delimited by ',' characters and finished with a ';' character, as in the following example: 400,404,428;

Read Random Low Memory Digital Status in LSB

Description of this command:

Reads up to 8 consecutive digital variables reflecting the status of the less significant bit of each byte read from low memory.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

-1

Meaning of the DriverP2 parameter:

3

Meaning of the DriverP3 parameter:

0

Meaning of the DriverP6 parameter:

Indicates the random addresses of each requested variable. Each address must be delimited by ',' characters and finished with a ';' character, as in the following example: 400,404,428;

Write Single Random Low Memory Digital Status in LSB

Description of this command:

Writes one digital status to low memory.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1

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Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (0-575).

Meaning of the DriverP2 parameter:

5

Meaning of the DriverP3 parameter:

0

Write Random Low Memory Digital Status in LSB

Description of this command:

Writes up to 4 consecutive digital variables setting the status of the less significant bit of each byte written to low memory.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

-1

Meaning of the DriverP2 parameter:

3

Meaning of the DriverP3 parameter:

0

Meaning of the DriverP6 parameter:

Indicates the random addresses of each affected variable. Each address must be delimited by ',' characters and finished with a ';' character, as in the following example: 400,404,428;

Read Consecutive Low Memory 8-Bit Analog Variables

Description of this command:

Reads consecutive analog variables as bytes from low memory.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to read (0-575).

Meaning of the DriverP2 parameter:

0

Meaning of the DriverP3 parameter:

0

Read Consecutive Low Memory 16-Bits Analog Variables

Description of this command:

Reads consecutive analog variables as 16-bits unsigned integers from low memory.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to read (0-575).

Meaning of the DriverP2 parameter:

1

Meaning of the DriverP3 parameter:

0

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Write Consecutive Low Memory 8-Bit Analog Variables

Description of this command:

Writes consecutive analog variables as bytes to low memory.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (0-575).

Meaning of the DriverP2 parameter:

0

Meaning of the DriverP3 parameter:

0

Write Consecutive Low Memory 16-Bits Analog Variables

Description of this command:

Writes consecutive analog variables as 16-bits unsigned integers to low memory.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (0-575).

Meaning of the DriverP2 parameter:

1

Meaning of the DriverP3 parameter:

0

Read Consecutive Low Memory Digital Status in LSB

Description of this command:

Reads up to 16 consecutive digital variables reflecting the status of the less significant bit of each byte read from low memory.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to read (0-575).

Meaning of the DriverP2 parameter:

3

Meaning of the DriverP3 parameter:

0

Read Consecutive Low Memory Digital Status in each bit

Description of this command:

Reads up to 128 consecutive digital variables reflecting the status of each bit in the bytes read from low memory.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Station Number (1-255).

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Meaning of the DriverP1 parameter:

Memory address to read (0-511).

Meaning of the DriverP2 parameter:

4

Meaning of the DriverP3 parameter:

0

Write Consecutive Low Memory Digital Status in LSB

Description of this command:

Writes up to 16 consecutive digital variables setting the status of the less significant bit of each byte written to low memory.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (0-575).

Meaning of the DriverP2 parameter:

3

Meaning of the DriverP3 parameter:

0

Write Consecutive Low Memory Digital Status in each bit

Description of this command:

Writes up to 128 consecutive digital variables setting the status of each bit in the bytes written to low memory.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (0-511).

Meaning of the DriverP2 parameter:

4

Meaning of the DriverP3 parameter:

0

Read Consecutive High Memory 8-Bit Analog Variables

Description of this command:

Reads consecutive analog variables as bytes from high memory.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to read (0-4095).

Meaning of the DriverP2 parameter:

0

Meaning of the DriverP3 parameter:

1

Read Consecutive High Memory 16-Bits Analog Variables

Description of this command:

Reads consecutive analog variables as 16-bits unsigned integers from high memory.

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Methods used to run this command:

Analog Input

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to read (0-4095).

Meaning of the DriverP2 parameter:

1

Meaning of the DriverP3 parameter:

1

Write Consecutive High Memory 8-Bit Analog Variables

Description of this command:

Writes consecutive analog variables as bytes to high memory.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (0-4095).

Meaning of the DriverP2 parameter:

0

Meaning of the DriverP3 parameter:

1

Write Consecutive High Memory 16-Bits Analog Variables

Description of this command:

Writes consecutive analog variables as 16-bits unsigned integers to high memory.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (0-4095).

Meaning of the DriverP2 parameter:

1

Meaning of the DriverP3 parameter:

1

Read Consecutive High Memory Digital Status in LSB

Description of this command:

Reads up to 16 consecutive digital variables reflecting the status of the less significant bit of each byte read from high memory.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to read (0-4095).

Meaning of the DriverP2 parameter:

3

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Meaning of the DriverP3 parameter:

1

Read Consecutive High Memory Digital Status in each bit

Description of this command:

Reads up to 128 consecutive digital variables reflecting the status of each bit in the bytes read from high memory.

Methods used to run this command:

Digital Input

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to read (0-4095).

Meaning of the DriverP2 parameter:

4

Meaning of the DriverP3 parameter:

1

Write Consecutive High Memory Digital Status in LSB

Description of this command:

Writes up to 16 consecutive digital variables setting the status of the less significant bit of each byte written to high memory.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-16

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (0-4095).

Meaning of the DriverP2 parameter:

3

Meaning of the DriverP3 parameter:

1

Write Consecutive High Memory Digital Status in each bit

Description of this command:

Writes up to 128 consecutive digital variables setting the status of each bit in the bytes written to high memory.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1-128

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (0-4095).

Meaning of the DriverP2 parameter:

4

Meaning of the DriverP3 parameter:

1

Read Consecutive Timer/Counter Values

Description of this command:

Reads consecutive timer/counter values as 14 bits unsigned integers.

Methods used to run this command:

Analog Input

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Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to read (512-575).

Meaning of the DriverP2 parameter:

2

Meaning of the DriverP3 parameter:

0

Write Consecutive Timer/Counter Values

Description of this command:

Writes consecutive timer/counter values as 14 bits unsigned integers.

Methods used to run this command:

Analog Output

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Station Number (1-255).

Meaning of the DriverP1 parameter:

Memory address to write (512-575).

Meaning of the DriverP2 parameter:

2

Meaning of the DriverP3 parameter:

0

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
[1433] PROTOCOL (Format): Validation error in device response
[2004] CONFIG (DataType): Only analog inputs and outputs are supported by this command
[2005] CONFIG (DataType): Only digital inputs and outputs are supported by this command
[2006] CONFIG (DataType): Only digital outputs are supported by this command
[2147] CONFIG (NumValues): Only one value can be read or written
[2186] CONFIG (NumValues): Too many values (max=128)
[2189] CONFIG (NumValues): Too many values (max=16)
[2216] CONFIG (NumValues): Too many values (max=4)
[2235] CONFIG (NumValues): Too many values (max=8)
[3022] CONFIG (P0): Invalid device address (1-255)
[3558] CONFIG (P1): Invalid low memory address (0-4095)
[3559] CONFIG (P1): Invalid low memory address (0-511)
[3560] CONFIG (P1): Invalid low memory address (0-575)
[3578] CONFIG (P1): Invalid timer or counter address (512-575)
[4035] CONFIG (P2): Invalid command (0/1/3)
[4037] CONFIG (P2): Invalid command (0-5)
[4502] CONFIG (P3): Invalid addressing mode (0=Low only)
[4503] CONFIG (P3): Invalid addressing mode (0=Low/1=High)
[6001] CONFIG (P6): Address not found for element %d
[6009] CONFIG (P6): Invalid address (%u) for element %d
[6030] CONFIG (P6): No addresses were specified
[8015] CONFIG (Remote): Acknowledge error received
[8016] CONFIG (Remote): Acknowledge error received in element %d at address %u

Supported devices

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

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