

Industrial communication solutions for Windows

XINTERGY Driver Manual

Swichtec SM20/Sm50 Intergy Mini Power Driver

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XINTERGY technical specifications

General information

XINTERGY driver allows you to connect to the Swichtec SM20/SM50 Intergy Mini Power Systems using the S3P protocol. Communication is performed using a RS-232 port in the PC. Packets are sent at 19200 baud with one start bit, 8 data bits, one stop bit and no parity.

Command list

Connect to Slave

Description of this command:

Establishes a communication channel between the master PC and the slave.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

1

Disconnect from Slave

Description of this command:

Reverts a slave to the disconnected state.

Methods used to run this command:

Digital Output

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

0

Read System Voltage

Description of this command:

Returns the current DC bus voltage.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

16393

Meaning of the DriverP2 parameter:

14

Read Load Current

Description of this command:

Returns the load current.

Methods used to run this command:

Analog Input

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Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

16392

Meaning of the DriverP2 parameter:

14

Read Battery Current

Description of this command:

Returns the battery current. This is positive for current flowing into the batteries.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

16394

Meaning of the DriverP2 parameter:

14

Read Battery Temperature

Description of this command:

Returns the battery temperature.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

16395

Meaning of the DriverP2 parameter:

14

Read Manual Equalise

Description of this command:

Indicates present process state of manual equalise.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

16420

Meaning of the DriverP2 parameter:

5

Values that are returned:

430 = process disabled

431 = process inactive

432 = process active

Read Periodic Equalise

Description of this command:

Indicates present process state of periodic equalise.

Methods used to run this command:

Analog Input

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Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

16425

Meaning of the DriverP2 parameter:

5

Values that are returned:

430 = process disabled

431 = process inactive

432 = process active

Read Battery Test

Description of this command:

Indicates present process state of battery test.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

16439

Meaning of the DriverP2 parameter:

5

Values that are returned:

430 = process disabled

431 = process inactive

432 = process active

Read Alarm State

Description of this command:

Represents the current state of the system alarm.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

16466

Meaning of the DriverP2 parameter:

20

Meaning of the DriverP3 parameter:

Alarm Index

Values that are returned:

1 = alarm inactive

2 = alarm active

Read Rectifier Urgent Alarm

Description of this command:

Set to alarm active if there is presently an urgent rectifier alarm.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

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Meaning of the DriverP1 parameter:

16467

Meaning of the DriverP2 parameter:

5

Values that are returned:

1 = alarm inactive

2 = alarm active

Read Rectifier Non Urgent Alarm

Description of this command:

Set to alarm active if there is presently an non-urgent rectifier alarm.

Methods used to run this command:

Analog Input

Number of points accepted by this command:

1.

Meaning of the DriverP0 parameter:

Slave address (1-124). Use 0 for a stand-alone device.

Meaning of the DriverP1 parameter:

16468

Meaning of the DriverP2 parameter:

5

Values that are returned:

1 = alarm inactive

2 = alarm active

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
[1433] PROTOCOL (Format): Validation error in device response
[2001] CONFIG (DataType): Analog outputs are not supported by this driver
[2002] CONFIG (DataType): Digital inputs are not supported by this driver
[3009] CONFIG (P0): Invalid device address (0-124)
[3510] CONFIG (P1): Invalid command (0 or 1 only)

Supported devices

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

POWERWARE SWICHTEC Intergy SM20/SM50 Mini Power Systems

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