

# Industrial communication solutions for Windows

## XSHISD20 Driver Manual

*Shimaden SD20 Series Digital Indicator Driver*

### Contents

XSHISD20 technical specifications .....	2
General information.....	2
Command list .....	2
Monitor Status of DIP Switch 1 .....	2
Monitor Status of DIP Switch 2.....	2
Monitor Status of Alarm Outputs and Stand-By Flag.....	2
Monitor Voltage or Current Input Type.....	2
Monitor PV Value .....	3
Monitor Peak Hold Value.....	3
Monitor Bottom Hold Value.....	3
Monitor Alarm Set Values.....	3
Monitor Alarm Hysteresis Values.....	3
Monitor Alarm Mode.....	4
Monitor Scaling Values.....	4
Monitor Decimal Point Position.....	4
Monitor Compensation Values and Unit for Sensor .....	4
Error messages .....	4
Supported devices.....	5

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## XSHISD20 technical specifications

### General information

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XSHISD20 driver allows you to connect to the SD20 Series Digital Indicators from Shimaden Co. Ltd. using either RS-232C, RS-422A or RS-485.

### Command list

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#### Monitor Status of DIP Switch 1

**Description of this command:**

Obtains current status of DIP switch 1.

**Methods used to run this command:**

Digital Input

**Number of points accepted by this command:**

1-4

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

1

#### Monitor Status of DIP Switch 2

**Description of this command:**

Obtains current status of DIP switch 2.

**Methods used to run this command:**

Digital Input

**Number of points accepted by this command:**

1-4

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

2

#### Monitor Status of Alarm Outputs and Stand-By Flag

**Description of this command:**

Obtains current status of alarm outputs and standby flag.

**Methods used to run this command:**

Digital Input

**Number of points accepted by this command:**

1-4

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

3

#### Monitor Voltage or Current Input Type

**Description of this command:**

Obtains current value of PV (Process Variable).

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1-3

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

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**Meaning of the DriverP1 parameter:**

5

## Monitor PV Value

**Description of this command:**

Obtains current value of PV (Process Variable).

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

6

## Monitor Peak Hold Value

**Description of this command:**

Obtains current peak hold value.

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

7

## Monitor Bottom Hold Value

**Description of this command:**

Obtains current bottom hold value.

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

8

## Monitor Alarm Set Values

**Description of this command:**

Obtains current alarm set values.

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1-2

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

9

## Monitor Alarm Hysteresis Values

**Description of this command:**

Obtains current alarm hysteresis values.

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1-2

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**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

10

## Monitor Alarm Mode

**Description of this command:**

Obtains current alarm mode.

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1-2

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

11

## Monitor Scaling Values

**Description of this command:**

Obtains current scaling values.

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1-2

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

12

## Monitor Decimal Point Position

**Description of this command:**

Obtains current decimal point position.

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

13

## Monitor Compensation Values and Unit for Sensor

**Description of this command:**

Obtains current compensation values and unit for sensor.

**Methods used to run this command:**

Analog Input

**Number of points accepted by this command:**

1

**Meaning of the DriverP0 parameter:**

Indicator Station Number (0-31).

**Meaning of the DriverP1 parameter:**

14

## 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

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[1300] PROTOCOL (Timeout): No answer  
[1430] PROTOCOL (Format): Unrecognized data  
[1431] PROTOCOL (Format): Unrecognized data 1  
[1432] PROTOCOL (Format): Unrecognized data 2  
[1433] PROTOCOL (Format): Validation error in device response  
[2147] CONFIG (NumValues): Only one value can be read or written  
[2194] CONFIG (NumValues): Too many values (max=2)  
[2206] CONFIG (NumValues): Too many values (max=3)  
[2216] CONFIG (NumValues): Too many values (max=4)  
[3010] CONFIG (P0): Invalid device address (0-16)  
[3015] CONFIG (P0): Invalid device address (0-31)  
[3508] CONFIG (P1): Invalid command  
[8032] CONFIG (Remote): BCC Error  
[8054] CONFIG (Remote): Command error  
[8083] CONFIG (Remote): Data Error  
[8087] CONFIG (Remote): Data Format Error  
[8137] CONFIG (Remote): Execution Command Error  
[8150] CONFIG (Remote): Framing Error  
[8192] CONFIG (Remote): Invalid command executed  
[8249] CONFIG (Remote): Out range value  
[8256] CONFIG (Remote): Overrun error  
[8259] CONFIG (Remote): Parity error  
[8324] CONFIG (Remote): Specification/option error  
[8331] CONFIG (Remote): Text format error  
[8365] CONFIG (Remote): Write command error

## Supported devices

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

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