XGLOBALW Driver Manual

Global Weighing MP 30 Protocol Driver

GLOBAL Weighing

sartorius

MP 30

Digital Weighing Indicator

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1. Introduction

CPKSoft Engineering assumes no responsibility for any errors that may appear in this document. If you have any suggestions for improvements or amendments or have found errors in this publication, please notify us.

This driver is included with all unlimited licenses of TAS-HMITalk. It is not sold separately. It requires the TAS-HMITalk ActiveX to work, therefore it cannot be used as a stand-alone driver.

If you use this driver in your applications, you need to include the xglobalw.tlk in the set of files that you distribute. This file must be located in the same folder where the hmitalk.ocx file is registered in order to be found by the activex when the applications are executed.

The source-code for the xglobalw.tlk driver is available in plain-C language for additional USD 299 if you own a license of TAS-HMITalk 8.04 or higher.

Refer to the following link to visit the xglobalw driver page at CPKSoft Engineering website: http://www.cpksoft.com/tabid/55/ProductID/44/PageIndex/1/Default.aspx.

Visit this link if you want to see a complete list of drivers that are currently available for TAS-HMITak: http://www.cpksoft.com/Drivers/tabid/55/Default.aspx.

Also, refer to this link if you are interested in purchasing a license of the most recent version of TAS-HMITalk: http://www.cpksoft.com/Products/tabid/54/Default.aspx.

We welcome your comments about this document. You can reach us by e-mail at contact @ cpksoft.com.

2. Driver details

2.1. Driver overview

XGLOBALW driver allows you to connect to the Sartorius Global Weighing MP 30 digital indicators. The equipment is expected to use mnemonics in the communication messages.

2.2. Supported devices

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

SARTORIUS GLOBAL WEIGHING MP 30 Digital Indicator

3. Command list

3.1. Read Net Weight

Description of this command:

This command allows you to read the Net Weight value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

0

Values that are returned:

Value in PointValue (0) = Value read

3.2. Read Total

Description of this command:

This command allows you to read the Total value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

1

Values that are returned:

Value in PointValue (0) = Value read

3.3. Read Max Input

Description of this command:

This command allows you to read the Max Input value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

2

Values that are returned:

Value in PointValue (0) = Value read

3.4. Read Min Input

Description of this command:

This command allows you to read the Min Input value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

3

Values that are returned:

Value in PointValue (0) = Value read

3.5. Read Setpoint 1

Description of this command:

This command allows you to read the Setpoint 1 value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

4

Values that are returned:

Value in PointValue (0) = Value read

3.6. Read Setpoint 2

Description of this command:

This command allows you to read the Setpoint 2 value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

5

Values that are returned:

Value in PointValue (0) = Value read

3.7. Read Setpoint 3

Description of this command:

This command allows you to read the Setpoint 3 value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

6

Values that are returned:

Value in PointValue (0) = Value read

3.8. Read Setpoint 4

Description of this command:

This command allows you to read the Setpoint 4 value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

7

Values that are returned:

Value in PointValue (0) = Value read

3.9. Read Analog Output Register

Description of this command:

This command allows you to read the Analog Output Register value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

8

Values that are returned:

Value in PointValue (0) = Value read

3.10. Read Control Status Register

Description of this command:

This command allows you to read the Control Status Register value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

9

Values that are returned:

Value in PointValue (0) = Value read

3.11. Read Gross Weight

Description of this command:

This command allows you to read the Gross Weight value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

10

Values that are returned:

Value in PointValue (0) = Value read

3.12. Read Tare Weight

Description of this command:

This command allows you to read the Tare Weight value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

11

Values that are returned:

Value in PointValue (0) = Value read

3.13. Read Front Key State

Description of this command:

This command allows you to read the Front Key State.

Type of data handled by this command:

Digital Input

Number of points accepted by this command:

1-5

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

12

Values that are returned:

Value in PointValue (0) = F1 Key
Value in PointValue (1) = F2 Key
Value in PointValue (2) = RST Key
Value in PointValue (3) = Second F1 Key
Value in PointValue (4) = Second F2 Key

3.14. Read User Inputs State

Description of this command:

This command allows you to read the User Inputs State.

Type of data handled by this command:

Digital Input

Number of points accepted by this command:

1-6

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

13

Values that are returned:

Value in PointValue (0) = User 1 Edge
Value in PointValue (1) = User 2 Edge
Value in PointValue (2) = User 3 Edge
Value in PointValue (3) = User 1 Level
Value in PointValue (4) = User 2 Level
Value in PointValue (5) = User 3 Level

3.15. Read Auto/Manual Modes

Description of this command:

This command allows you to read the Setpoint Auto/Manual Modes.

Type of data handled by this command:

Digital Input

Number of points accepted by this command:

1-5

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

14

Values that are returned:

Value in PointValue (0) = SP1 Mode
Value in PointValue (1) = SP2 Mode
Value in PointValue (2) = SP3 Mode
Value in PointValue (3) = SP4 Mode
Value in PointValue (4) = Analog Output Mode

3.16. Read Setpoint Outputs State

Description of this command:

This command allows you to read the Setpoint Outputs State.

Type of data handled by this command:

Digital Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

15

Values that are returned:

Value in PointValue (0) = SP1 State
Value in PointValue (1) = SP2 State
Value in PointValue (2) = SP3 State
Value in PointValue (3) = SP4 State

3.17. Reset Total

Description of this command:

This command allows you to reset the Total value.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

1

Values that are sent:

Value in PointValue (0) = Ignored

3.18. Reset Max Input

Description of this command:

This command allows you to reset the Max Input value.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

2

Values that are sent:

Value in PointValue (0) = Ignored

3.19. Reset Min Input

Description of this command:

This command allows you to reset the Min Input value.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

3

Values that are sent:

Value in PointValue (0) = Ignored

3.20. Set Setpoint 1

Description of this command:

This command allows you to set the Setpoint 1 value.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

4

Values that are sent:

Value in PointValue (0) = New Setpoint 1 Value

3.21. Set Setpoint 2

Description of this command:

This command allows you to set the Setpoint 2 value.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

5

Values that are sent:

Value in PointValue (0) = New Setpoint 2 Value

3.22. Set Setpoint 3

Description of this command:

This command allows you to set the Setpoint 3 value.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

6

Values that are sent:

Value in PointValue (0) = New Setpoint 3 Value

3.23. Set Setpoint 4

Description of this command:

This command allows you to set the Setpoint 4 value.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

7

Values that are sent:

Value in PointValue (0) = New Setpoint 4 Value

3.24. Set Analog Output Register

Description of this command:

This command allows you to set the Analog Output Register value.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

8

Values that are sent:

Value in PointValue (0) = New Analog Output Register Value

3.25. Set Control Status Register

Description of this command:

This command allows you to set the Control Status Register value.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If 0 indicates point-to-point connection.

Meaning of the DriverP1 parameter:

9

Values that are sent:

Value in PointValue (0) = New Control Status Register Value

4. Appendices

4.1. Error messages

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

This list does not include some error messages that can be returned by the activex component while attempting to establish a connection.

[1005] DRIVER (Internal): Invalid driver stage
[1300] PROTOCOL (Timeout): No answer
[1410] PROTOCOL (Format): Invalid device id in response
[3018] CONFIG (P0): Invalid device address (0-99)
[3508] CONFIG (P1): Invalid command

4.2. Keywords list

The following list shows a set of words directly related to this driver.

"GLOBAL, Indicator, MP, SARTORIUS, WEIGHING".