

# Industrial communication solutions for Windows

## XIEARING Driver Manual

### *IEA Single-Loop Controllers Driver*

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## XIEARING technical specifications

### General information

XIEARING driver allows you to connect with IEA S9800 monolink controllers and data acquisition devices which use the same protocol. Requires a free RS-232 in your PC and a 20 mA Current Loop/RS-232 IEA converter.

This driver requires that you set the "HMITalk1.CommSkipEcho" property to True in order to filter the received echo during transmission.

### Command list

#### S9800 Commands

##### *Read Current Values*

**Description of this command:**

Reads current values information.

**Methods used to run this command:**

Analog Input

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

1-4

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

0

**Values that are returned:**

Value in PointValue (0) = Process variable measured (V)

Value in PointValue (1) = Controller's Setpoint (S)

Value in PointValue (2) = Controller's output (%)

Value in PointValue (3) = Controller's M/A status (0=Auto, 1=Manual)

##### *Read Main Parameters*

**Description of this command:**

Reads main parameters information.

**Methods used to run this command:**

Analog Input

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

1-8

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

1

**Values that are returned:**

Value in PointValue (0) = Span's proportional band, in % (P)

Value in PointValue (1) = Integral time, in seconds (I)

Value in PointValue (2) = Derivative time, in seconds (D)

Value in PointValue (3) = Service cycle, in seconds (C)

Value in PointValue (4) = Alarm A, in engineering unit (A)

Value in PointValue (5) = Alarm B, in engineering unit (B)

Value in PointValue (6) = Setpoint, in engineering unit

Value in PointValue (7) = Controller's M/A status (0=Auto, 1=Manual)

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## *Read Decimal Point*

**Description of this command:**

Reads decimal point information. Valid range: 0-2.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

2

## *Write Decimal Point*

**Description of this command:**

Writes decimal point information. Valid range: 0-2.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

2

## *Read Current Mode*

**Description of this command:**

Reads current mode information. Valid range: 0-3.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

3

## *Write Current Mode*

**Description of this command:**

Writes current mode information. Valid range: 0-3.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

3

## *Read Low*

**Description of this command:**

Reads low information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Input

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

1

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**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

4

*Write Low***Description of this command:**

Writes low information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

4

*Read High***Description of this command:**

Reads high information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

5

*Write High***Description of this command:**

Writes high information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

5

*Read Station Number***Description of this command:**

Reads station number information. Valid range: 0-99.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

6

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## *Read Setpoint*

**Description of this command:**

Reads setpoint information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

7

## *Write Setpoint*

**Description of this command:**

Writes setpoint information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

7

## *Read Proportional Band*

**Description of this command:**

Reads proportional band information. Valid range: 0-499.9%.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

8

## *Write Proportional Band*

**Description of this command:**

Writes proportional band information. Valid range: 0-499.9%.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

8

## *Read Integral Time*

**Description of this command:**

Reads integral time information. Valid range: 0-9999 sec.

**Methods used to run this command:**

Analog Input

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

1

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**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

9

### *Write Integral Time*

**Description of this command:**

Writes integral time information. Valid range: 0-9999 sec.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

9

### *Read Derivative Time*

**Description of this command:**

Reads derivative time information. Valid range: 0-499 sec.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

10

### *Write Derivative Time*

**Description of this command:**

Writes derivative time information. Valid range: 0-499 sec.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

10

### *Read Service Cycle*

**Description of this command:**

Reads service cycle information. Valid range: 0-200 sec.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

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## *Write Service Cycle*

**Description of this command:**

Writes service cycle information. Valid range: 0-200 sec.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

11

## *Read Alarm Due to Maximum*

**Description of this command:**

Reads alarm due to maximum information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

12

## *Write Alarm Due to Maximum*

**Description of this command:**

Writes alarm due to maximum information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

12

## *Read Alarm Due to Minimum*

**Description of this command:**

Reads alarm due to minimum information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

13

## *Write Alarm Due to Minimum*

**Description of this command:**

Writes alarm due to minimum information. Valid range: (-999)-4000.

**Methods used to run this command:**

Analog Output

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

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**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

13

### *Read Input Signal Selector*

**Description of this command:**

Reads input signal selector information. Valid range: 0-7.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

14

### *Write Input Signal Selector*

**Description of this command:**

Writes input signal selector information. Valid range: 0-7.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

14

### *Read Remote Set Gain*

**Description of this command:**

Reads remote set gain information. Valid range: (-9.99)-9.99.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

15

### *Write Remote Set Gain*

**Description of this command:**

Writes remote set gain information. Valid range: (-9.99)-9.99.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

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## *Read Remote Set Bias*

**Description of this command:**

Reads remote set bias information. Valid range: (-9.99)-4000.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

16

## *Write Remote Set Bias*

**Description of this command:**

Writes remote set bias information. Valid range: (-9.99)-4000.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

16

## *Read Feedforward Gain*

**Description of this command:**

Reads feedforward gain information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

17

## *Write Feedforward Gain*

**Description of this command:**

Writes feedforward gain information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

17

## *Read Cooking Programmer's Link*

**Description of this command:**

Reads cooking programmer's link information. Valid range: 1-9.

**Methods used to run this command:**

Analog Input

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

1

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**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

18

*Write Cooking Programmer's Link***Description of this command:**

Writes cooking programmer's link information. Valid range: 1-9.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

18

*Read Sequence Repetitions***Description of this command:**

Reads sequence repetitions information. Valid range: 1-99.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

19

*Write Sequence Repetitions***Description of this command:**

Writes sequence repetitions information. Valid range: 1-99.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

19

*Read Setpoint of Segment 1 Cooking Prog.***Description of this command:**

Reads setpoint of segment 1 cooking prog. information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

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## *Write Setpoint of Segment 1 Cooking Prog.*

**Description of this command:**

Writes setpoint of segment 1 cooking prog. information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

20

## *Read Setpoint of Segment 2 Cooking Prog.*

**Description of this command:**

Reads setpoint of segment 2 cooking prog. information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

21

## *Write Setpoint of Segment 2 Cooking Prog.*

**Description of this command:**

Writes setpoint of segment 2 cooking prog. information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

21

## *Read Setpoint of Segment 3 Cooking Prog.*

**Description of this command:**

Reads setpoint of segment 3 cooking prog. information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

22

## *Write Setpoint of Segment 3 Cooking Prog.*

**Description of this command:**

Writes setpoint of segment 3 cooking prog. information.

**Methods used to run this command:**

Analog Output

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

1

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**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

22

*Read Setpoint of Segment 4 Cooking Prog.***Description of this command:**

Reads setpoint of segment 4 cooking prog. information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

23

*Write Setpoint of Segment 4 Cooking Prog.***Description of this command:**

Writes setpoint of segment 4 cooking prog. information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

23

*Read Setpoint of Segment 5 Cooking Prog.***Description of this command:**

Reads setpoint of segment 5 cooking prog. information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

24

*Write Setpoint of Segment 5 Cooking Prog.***Description of this command:**

Writes setpoint of segment 5 cooking prog. information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

24

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## *Read Setpoint of Segment 6 Cooking Prog.*

**Description of this command:**

Reads setpoint of segment 6 cooking prog. information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

25

## *Write Setpoint of Segment 6 Cooking Prog.*

**Description of this command:**

Writes setpoint of segment 6 cooking prog. information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

25

## *Read Setpoint of Segment 7 Cooking Prog.*

**Description of this command:**

Reads setpoint of segment 7 cooking prog. information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

26

## *Write Setpoint of Segment 7 Cooking Prog.*

**Description of this command:**

Writes setpoint of segment 7 cooking prog. information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

26

## *Read Setpoint of Segment 8 Cooking Prog.*

**Description of this command:**

Reads setpoint of segment 8 cooking prog. information.

**Methods used to run this command:**

Analog Input

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

1

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**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

27

*Write Setpoint of Segment 8 Cooking Prog.***Description of this command:**

Writes setpoint of segment 8 cooking prog. information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

27

*Read Setpoint of Segment 9 Cooking Prog.***Description of this command:**

Reads setpoint of segment 9 cooking prog. information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

28

*Write Setpoint of Segment 9 Cooking Prog.***Description of this command:**

Writes setpoint of segment 9 cooking prog. information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

28

*Read Segment 1 Cooking Prog. Time***Description of this command:**

Reads segment 1 cooking prog time information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

29

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## *Write Segment 1 Cooking Prog. Time*

**Description of this command:**

Writes segment 1 cooking prog time information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

29

## *Read Segment 2 Cooking Prog. Time*

**Description of this command:**

Reads segment 2 cooking prog. time information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

30

## *Write Segment 2 Cooking Prog. Time*

**Description of this command:**

Writes segment 2 cooking prog. time information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

30

## *Read Segment 3 Cooking Prog. Time*

**Description of this command:**

Reads segment 3 cooking prog. time information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

31

## *Write Segment 3 Cooking Prog. Time*

**Description of this command:**

Writes segment 3 cooking prog. time information.

**Methods used to run this command:**

Analog Output

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

1

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**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

31

*Read Segment 4 Cooking Prog. Time***Description of this command:**

Reads segment 4 cooking prog. time information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

32

*Write Segment 4 Cooking Prog. Time***Description of this command:**

Writes segment 4 cooking prog. time information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

32

*Read Segment 5 Cooking Prog. Time***Description of this command:**

Reads segment 5 cooking prog. time information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

33

*Write Segment 5 Cooking Prog. Time***Description of this command:**

Writes segment 5 cooking prog. time information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

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## *Read Segment 6 Cooking Prog. Time*

**Description of this command:**

Reads segment 6 cooking prog. time information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

34

## *Write Segment 6 Cooking Prog. Time*

**Description of this command:**

Writes segment 6 cooking prog. time information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

34

## *Read Segment 7 Cooking Prog. Time*

**Description of this command:**

Reads segment 7 cooking prog. time information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

35

## *Write Segment 7 Cooking Prog. Time*

**Description of this command:**

Writes segment 7 cooking prog. time information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

35

## *Read Segment 8 Cooking Prog. Time*

**Description of this command:**

Reads segment 8 cooking prog. time information.

**Methods used to run this command:**

Analog Input

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

1

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**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

36

### *Write Segment 8 Cooking Prog. Time*

**Description of this command:**

Writes segment 8 cooking prog. time information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

36

### *Read Segment 9 Cooking Prog. Time*

**Description of this command:**

Reads segment 9 cooking prog. time information.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

37

### *Write Segment 9 Cooking Prog. Time*

**Description of this command:**

Writes segment 9 cooking prog. time information.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

37

### *Write Programmer Start, Stop or Reset*

**Description of this command:**

Writes Programmer Start (1), Stop (2) or Reset (0) information. Valid range: 0-2.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

38

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## *Set Controller's Output in Auto*

**Description of this command:**

Writes controller's output in auto.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

39

## *Turn Controller to Manual Mode and Write the Output %*

**Description of this command:**

Turns controller to Manual mode and write the output %

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

40  
[S6800 Commands]

## S6800 Commands

### *Read 4-Digit Current Values*

**Description of this command:**

Reads S6800 4-Digit current values information.

**Methods used to run this command:**

Analog Input

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

1-5

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the counter with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

300

**Values that are returned:**

Value in PointValue (0) = SetPoint  
Value in PointValue (1) = Counter Value  
Value in PointValue (2) = Reset  
Value in PointValue (3) = Counting  
Value in PointValue (4) = On-line

### *Read 6-Digit/1-Setpoint Current Values*

**Description of this command:**

Reads S6800 6-Digit/1-Setpoint current values information.

**Methods used to run this command:**

Analog Input

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

1-4

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the counter with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

400

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**Values that are returned:**

Value in PointValue (0) = Counter Value  
Value in PointValue (1) = SetPoint  
Value in PointValue (2) = Reset  
Value in PointValue (3) = Counting

*Read 6-Digit/3-Setpoint Current Values***Description of this command:**

Reads S6800 6-Digit/3-Setpoint current values information.

**Methods used to run this command:**

Analog Input

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

1-6

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the counter with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

500

**Values that are returned:**

Value in PointValue (0) = Counter Value  
Value in PointValue (1) = SetPoint 1  
Value in PointValue (2) = SetPoint 2  
Value in PointValue (3) = SetPoint 3  
Value in PointValue (4) = Reset  
Value in PointValue (5) = Counting

*Write ??xxx part of Setpoint 1***Description of this command:**

Writes ??xxx part of setpoint 1 value.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

307

*Write xx??? part of Setpoint 1***Description of this command:**

Writes xx??? part of setpoint 1 value.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

308

*Write ??xxx part of Setpoint 2***Description of this command:**

Writes ??xxx part of setpoint 1 value.

**Methods used to run this command:**

Analog Output

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

1

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## **Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99). ot used.

### *Write xx??? part of Setpoint 2*

#### **Description of this command:**

Writes xx??? part of setpoint 1 value.

#### **Methods used to run this command:**

Analog Output

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

1

#### **Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

#### **Meaning of the DriverP1 parameter:**

310

### *Write ??xxx part of Setpoint 3*

#### **Description of this command:**

Writes ??xxx part of setpoint 1 value.

#### **Methods used to run this command:**

Analog Output

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

1

#### **Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

#### **Meaning of the DriverP1 parameter:**

311

### *Write xx??? part of Setpoint 3*

#### **Description of this command:**

Writes xx??? part of setpoint 1 value.

#### **Methods used to run this command:**

Analog Output

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

1

#### **Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

#### **Meaning of the DriverP1 parameter:**

312

### *Write Multiplication Factor*

#### **Description of this command:**

Writes multiplication factor.

#### **Methods used to run this command:**

Analog Output

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

1

#### **Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

#### **Meaning of the DriverP1 parameter:**

316

### *Write Division Factor*

#### **Description of this command:**

Writes division factor (must be 0, 1, 2, 3, 4 or 5).

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**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

314

### *Set Decimal Point*

**Description of this command:**

Sets the decimal point (0, 1 or 2).

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

302

### *Write Filter Value*

**Description of this command:**

Writes filter value (0-1000).

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

315

### *Write Mode*

**Description of this command:**

Writes current mode (0, 1, 2 or 3).

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**

303

### *Write Relay Time*

**Description of this command:**

Writes relay time (0-0100).

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the destination station number of the controller with which communication will be made (0-99).

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**Meaning of the DriverP1 parameter:**  
306

## *Write Station Number*

**Description of this command:**  
Writes device's station number (1-99).

**Methods used to run this command:**  
Analog Output

**Number of points accepted by this command:**  
1

**Meaning of the DriverP0 parameter:**  
Indicates the destination station number of the controller with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**  
306  
[MA98000 Commands]

## MA98000 Commands

### *Read Measured Analog Channels*

**Description of this command:**  
Reads the measured channel values.

**Methods used to run this command:**  
Analog Input

**Number of points accepted by this command:**  
1-200

**Meaning of the DriverP0 parameter:**  
Indicates the destination station number of the unit with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**  
200

**Meaning of the DriverP2 parameter:**  
First channel to be read

### *Read Optional Analog Channels*

**Description of this command:**  
Reads the optional channel values.

**Methods used to run this command:**  
Analog Input

**Number of points accepted by this command:**  
1-200

**Meaning of the DriverP0 parameter:**  
Indicates the destination station number of the unit with which communication will be made (0-99).

**Meaning of the DriverP1 parameter:**  
201

**Meaning of the DriverP2 parameter:**  
First channel to be read

## 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  
[1401] PROTOCOL (Format): Acknowledge was not received from device  
[1433] PROTOCOL (Format): Validation error in device response  
[2147] CONFIG (NumValues): Only one value can be read or written  
[2196] CONFIG (NumValues): Too many values (max=200)  
[2216] CONFIG (NumValues): Too many values (max=4)  
[2235] CONFIG (NumValues): Too many values (max=8)

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[3018] CONFIG (P0): Invalid device address (0-99)  
[3503] CONFIG (P1): Digital inputs are not supported for this device  
[3504] CONFIG (P1): Digital outputs are not supported for this device  
[3518] CONFIG (P1): Invalid command (0-600)  
[3527] CONFIG (P1): Invalid command (2-40)  
[4122] CONFIG (P2): Invalid value (1-200)

## Supported devices

---

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

IEA S9800 Single-Loop Controller  
IEA S6800 4-Digit Displays  
IEA S6800 6-Digit/1-Setpoint Displays  
IEA S6800 6-Digit/3-Setpoint Displays  
IEA MA98000 Analog Signals Multiplexor

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