

# Industrial communication solutions for Windows

## XREDLION Driver Manual

### *Red Lion Counters Protocol Driver*

#### Contents

<b>XREDLION technical specifications .....</b>	<b>3</b>
General information.....	3
Command list .....	3
Read Actual Value.....	3
Read Preset 1 .....	3
Read Preset 2 .....	3
Read Preset 3 .....	3
Read Preset 4 .....	4
Read Scale Factor Count .....	4
Read Scale Factor Rate .....	4
Read Rate Value.....	4
Read Peak Value .....	4
Read Valley Value.....	5
Read Counter Load Value .....	5
Read Output 1 .....	5
Read Output 2.....	5
Read Output 3.....	5
Read Output 4.....	6
Reset Counter Value .....	6
Reset Peak Value.....	6
Reset Valey Value.....	6
Reset Output 1 .....	6
Reset Output 2.....	7
Reset Output 3.....	7
Reset Output 4.....	7
Write Actual Value.....	7
Write Preset 1 .....	8
Write Preset 2 .....	8
Write Preset 3 .....	8
Write Preset 4 .....	8
Write Scale Factor Count .....	8
Write Scale Factor Rate .....	9
Write Counter Load Value .....	9

CPKSoft Engineering

Industrial communication  
drivers.

[www.cpksoft.com](http://www.cpksoft.com)

[www.facebook.com/  
cpksoftengineering](http://www.facebook.com/cpksoftengineering)

[cpksoftengineering@  
hotmail.com](mailto:cpksoftengineering@hotmail.com)

phone: 54-911-45788354

1990-2012

# Industrial communication solutions for Windows

Error messages .....	9
Supported devices.....	9

CPKSoft Engineering

Industrial communication drivers.

[www.cpksoft.com](http://www.cpksoft.com)

[www.facebook.com/cpksoftengineering](https://www.facebook.com/cpksoftengineering)

[cpksoftengineering@hotmail.com](mailto:cpksoftengineering@hotmail.com)

phone: 54-911-45788354

1990-2012

# Industrial communication solutions for Windows

## XREDLION technical specifications

### General information

---

XREDLION driver allows you to connect to the RED LION CONTROLS Legend Series model LGS. Remember that you must set the counter in "Transmit Mnemonics" mode.

### Command list

---

#### Read Actual Value

**Description of this command:**

This command allows you to read the actual value.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

0

#### Read Preset 1

**Description of this command:**

This command allows you to read the preset 1.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

1

#### Read Preset 2

**Description of this command:**

This command allows you to read the preset 2.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

20

#### Read Preset 3

**Description of this command:**

This command allows you to read the preset 3.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

CPKSoft Engineering

Industrial communication drivers.

[www.cpksoft.com](http://www.cpksoft.com)

[www.facebook.com/cpksoftengineering](http://www.facebook.com/cpksoftengineering)

[cpksoftengineering@](mailto:cpksoftengineering@hotmail.com)

[hotmail.com](mailto:cpksoftengineering@hotmail.com)

phone: 54-911-45788354

1990-2012

# Industrial communication solutions for Windows

## Meaning of the DriverP1 parameter:

21

## Read Preset 4

### Description of this command:

This command allows you to read the preset 4.

### Methods used to run this command:

Analog Input

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

### Meaning of the DriverP1 parameter:

22

## Read Scale Factor Count

### Description of this command:

This command allows you to read the scale factor count.

### Methods used to run this command:

Analog Input

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

### Meaning of the DriverP1 parameter:

2

## Read Scale Factor Rate

### Description of this command:

This command allows you to read the scale factor rate.

### Methods used to run this command:

Analog Input

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

### Meaning of the DriverP1 parameter:

3

## Read Rate Value

### Description of this command:

This command allows you to read the rate value.

### Methods used to run this command:

Analog Input

### Number of points accepted by this command:

1

### Meaning of the DriverP0 parameter:

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

### Meaning of the DriverP1 parameter:

4

## Read Peak Value

### Description of this command:

This command allows you to read the peak value.

### Methods used to run this command:

Analog Input

### Number of points accepted by this command:

1

CPKSoft Engineering

Industrial communication  
drivers.

www.cpksoft.com  
www.facebook.com/  
cpksoftengineering  
cpksoftengineering@  
hotmail.com  
phone: 54-911-45788354

1990-2012

# Industrial communication solutions for Windows

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

5

## Read Valley Value

**Description of this command:**

This command allows you to read the valley value.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

6

## Read Counter Load Value

**Description of this command:**

This command allows you to read the counter load value.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

7

## Read Output 1

**Description of this command:**

This command allows you to read the output 1.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

8

## Read Output 2

**Description of this command:**

This command allows you to read the output 2.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

23

## Read Output 3

**Description of this command:**

This command allows you to read the output 3.

**Methods used to run this command:**

Analog Input

CPKSoft Engineering

Industrial communication drivers.

www.cpksoft.com

www.facebook.com/

cpksoftengineering

cpksoftengineering@

hotmail.com

phone: 54-911-45788354

1990-2012

# Industrial communication solutions for Windows

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

24

## Read Output 4

**Description of this command:**

This command allows you to read the output 4.

**Methods used to run this command:**

Analog Input

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

25

## Reset Counter Value

**Description of this command:**

This command allows you to reset the counter value.

**Methods used to run this command:**

Digital Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

9

## Reset Peak Value

**Description of this command:**

This command allows you to reset the peak value.

**Methods used to run this command:**

Digital Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

10

## Reset Valey Value

**Description of this command:**

This command allows you to reset the valley value.

**Methods used to run this command:**

Digital Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

11

## Reset Output 1

**Description of this command:**

This command allows you to reseat the output 1.

CPKSoft Engineering

Industrial communication drivers.

www.cpksoft.com

www.facebook.com/

cpksoftengineering

cpksoftengineering@

hotmail.com

phone: 54-911-45788354

1990-2012

# Industrial communication solutions for Windows

**Methods used to run this command:**

Digital Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

12

## Reset Output 2

**Description of this command:**

This command allows you to reseat the output 2.

**Methods used to run this command:**

Digital Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

26

## Reset Output 3

**Description of this command:**

This command allows you to reseat the output 3.

**Methods used to run this command:**

Digital Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

27

## Reset Output 4

**Description of this command:**

This command allows you to reseat the output 4.

**Methods used to run this command:**

Digital Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

28

## Write Actual Value

**Description of this command:**

This command allows you to write the actual value.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

13

CPKSoft Engineering

Industrial communication  
drivers.

[www.cpksoft.com](http://www.cpksoft.com)

[www.facebook.com/  
cpksoftengineering](https://www.facebook.com/cpksoftengineering)

[cpksoftengineering@  
hotmail.com](mailto:cpksoftengineering@hotmail.com)

phone: 54-911-45788354

1990-2012

# Industrial communication solutions for Windows

## Write Preset 1

**Description of this command:**

This command allows you to write the preset 1.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

14

## Write Preset 2

**Description of this command:**

This command allows you to write the preset 2.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

29

## Write Preset 3

**Description of this command:**

This command allows you to write the preset 3.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

30

## Write Preset 4

**Description of this command:**

This command allows you to write the preset 4.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

31

## Write Scale Factor Count

**Description of this command:**

This command allows you to write the scale factor count.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

15

CPKSoft Engineering

Industrial communication drivers.

[www.cpksoft.com](http://www.cpksoft.com)

[www.facebook.com/cpksoftengineering](https://www.facebook.com/cpksoftengineering)

[cpksoftengineering@hotmail.com](mailto:cpksoftengineering@hotmail.com)

[cpksoftengineering@hotmail.com](mailto:cpksoftengineering@hotmail.com)

phone: 54-911-45788354

1990-2012



# Industrial communication solutions for Windows

## Write Scale Factor Rate

**Description of this command:**

This command allows you to write the scale factor rate.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

16

## Write Counter Load Value

**Description of this command:**

This command allows you to write the counter load value.

**Methods used to run this command:**

Analog Output

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

1

**Meaning of the DriverP0 parameter:**

Indicates the station address (00-99). If HMITalk1.DriverP0 = 0 indicates point-to-point connection.

**Meaning of the DriverP1 parameter:**

17

## 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  
[1410] PROTOCOL (Format): Invalid device id in response  
[3018] CONFIG (P0): Invalid device address (0-99)  
[3508] CONFIG (P1): Invalid command

## Supported devices

---

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

RED LION LEGEND SERIES MODEL LGS Single Preset Counter/Rate Indicator  
RED LION LEGEND SERIES MODEL LGD Dual Preset Counter/Rate Indicator  
RED LION LEGEND SERIES MODEL LGB Four Preset Batch/Counter/Rate Indicator  
RED LION LEGEND SERIES MODEL LGM Six Preset Counter/Rate Indicator

CPKSoft Engineering

Industrial communication  
drivers.

www.cpksoft.com

www.facebook.com/

cpksoftengineering

cpksoftengineering@

hotmail.com

phone: 54-911-45788354

1990-2012