Industrial communication solutions for Windows

XBCOLMAN Driver Manual

Barber Colman model MAQ Temperature Controller Driver

Contents

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XBCOLMAN technical specifications

General information

XBCOLMAN driver allows you to connect with BARBER COLMAN Temperature Controller Model MAE and MAQ.

Command list

Read Temperature Control Setpoint Degrees

Description of this command:
Obtains the current value of Temperature Control Setpoint Degrees.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
83.

Read Temperature Alarm 1 Setting Degrees

Description of this command:
Obtains the current values of Temperature Alarm 1 Setting Degrees.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
65

Read Temperature Alarm 2 Setting Degrees

Description of this command:
Obtains the current value of Temperature Alarm 2 Setting Degrees.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
97

Read PB 1 Setting Percent

Description of this command:
Obtains the current value of PB 1 Setting Percent.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).

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Meaning of the DriverP1 parameter:
80

Read Integral Time Setting Seconds

Description of this command:
Obtains the current value of Integral Time Setting Seconds.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
73

Read Derivative Time Setting Seconds

Description of this command:
Obtains the current value of Derivative Time Setting Seconds.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
68

Read Load Line Setting Percent

Description of this command:
Obtains the current value of Load Line Setting Percent.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
87

Read Manual Output Setting Percent

Description of this command:
Obtains the current value of Manual Output Setting Percent. Only for model MAQ.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
77

Read Output 1 Cicle Time Setting Seconds

Description of this command:
Obtains the current value of Output 1 Cicle Time Setting Seconds.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1

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Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
67

Read Output 2 Cicle Time Setting Seconds

Description of this command:
Obtains the current value of Output 2 Cicle Time Setting Seconds.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
99

Read PB 2 Setting (Multiplier)

Description of this command:
Obtains the current value of PB 2 Setting.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
112

Read Output 1 Hysteresis Setting Degrees

Description of this command:
Obtains the current value of Output 1 Hysteresis Setting Degrees.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
70

Read Output 2 Hysteresis Setting Degrees

Description of this command:
Obtains the current value of Output 2 Hysteresis Setting Degrees.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
102

Read Output High Limit Degrees

Description of this command:
Obtains the current value of Output High Limit Degrees.
Methods used to run this command:
Analog Input / Digital Input

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Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
85

Read Output Low Limit Degrees.

Description of this command:
Obtains the current value of Output Low Limit Degrees.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
76

Read PID/Manual Setting Unitless

Description of this command:
Obtains the current value of PID/Manual Setting Unitless.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
78

Read Setting Value Lock Unitless

Description of this command:
Obtains the current value of Setting Value Lock Unitless.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
75
Values that are returned:
- 00 = Unlocked
- 01 = Lock 1
- 02 = Lock 2

Read Remote/Local Temp. Ctrl. Setpoint Unitless

Description of this command:
Obtains the current state of Remote/Local Temp. Ctrl. Setpoint Unitless.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
82
Values that are returned:
- 00 = Local

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- 01 = Remote

Read Touchtune Setting Unitless

Description of this command:
Obtains the current state of Touchtune Setting Unitless.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
89
Values that are returned:
- 00 = During Control
- 01 = During Touchtune

Read Sensor Input Value Degrees

Description of this command:
Obtains the current value of Sensor Input Value Degrees.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
84

Read Control Output Value Percent

Description of this command:
Obtains the current value of Control Output Value Percent.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
79

Read Alarm Output Status Unitless

Description of this command:
Obtains the current states of Alarm Output Status Unitless.
Methods used to run this command:
Analog Input / Digital Input
Number of points accepted by this command:
1-3
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
81
Values that are sent:
Value in PointValue (0) = Sensor Burnout Alarm
Value in PointValue (1) = High Deviation Alarm Status
Value in PointValue (2) = Low Deviation Alarm Status

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Write Temperature Control Setpoint Degrees

Description of this command:
Sets the Temperature Control Setpoint Degrees current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
83
Meaning of the DriverP2 parameter:
Indicates the lowest value allowed.
Meaning of the DriverP3 parameter:
Indicates the highest value allowed. If HMITalk1.DriverP2 >= HMITalk1.DriverP3 limits checking is disabled.

Write Temperature Alarm 1 Setting Degrees

Description of this command:
Sets the Temperature Alarm 1 Setting Degrees current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
65
Meaning of the DriverP2 parameter:
Indicates the lowest value allowed.
Meaning of the DriverP3 parameter:
Indicates the highest value allowed. If HMITalk1.DriverP2 >= HMITalk1.DriverP3 limits checking is disabled.

Write Temperature Alarm 2 Setting Degrees

Description of this command:
Sets the Temperature Alarm 2 Setting Degrees current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
97
Meaning of the DriverP2 parameter:
Indicates the lowest value allowed.
Meaning of the DriverP3 parameter:
Indicates the highest value allowed. If HMITalk1.DriverP2 >= HMITalk1.DriverP3 limits checking is disabled.

Write PB 1 Setting Percent

Description of this command:
Sets the PB 1 Setting Percent current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).

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Meaning of the DriverP1 parameter:
80

Write Integral Time Setting Seconds.

Description of this command:
Sets the Integral Time Setting Seconds current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
73

Write Derivative Time Setting Seconds

Description of this command:
Sets the Derivative Time Setting Seconds current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
68

Write Load Line Setting Percent

Description of this command:
Sets the Load Line Setting Percent currnet value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
87

Write Manual Output Setting Percent

Description of this command:
Sets the Manual Output Setting Percent currnet value. Only for model MAQ.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
77

Write Output 1 Cicle Time Setting Seconds

Description of this command:
Sets the Output 1 Cicle Time Setting Seconds current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1

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Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
67

Write Output 2 Cicle Time Setting Seconds

Description of this command:
Sets the Output 2 Cicle Time Setting Seconds current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
99

Write PB 2 Setting (Multiplier).

Description of this command:
Sets the PB 2 Setting current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
112

Write Output 1 Hysteresis Setting Degrees

Description of this command:
Sets the Output 1 Hysteresis Setting Degrees current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
70

Write Output 2 Hysteresis Setting Degrees

Description of this command:
Sets the Output 2 Hysteresis Setting Degrees current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
102

Write Output High Limit Degrees

Description of this command:
Sets the Output High Limit Degrees current value.
Methods used to run this command:
Analog Output / Digital Output

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Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
85
Meaning of the DriverP2 parameter:
Indicates the lowest value allowed.
Meaning of the DriverP3 parameter:
Indicates the highest value allowed. If HMITalk1.DriverP2 >= HMITalk1.DriverP3 limits checking is disabled.

Write Output Low Limit Degrees

Description of this command:
Sets the Output Low Limit Degrees current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
76
Meaning of the DriverP2 parameter:
Indicates the lowest value allowed.
Meaning of the DriverP3 parameter:
Indicates the highest value allowed. If HMITalk1.DriverP2 >= HMITalk1.DriverP3 limits checking is disabled.

Write PID/Manual Setting Unitless

Description of this command:
Sets the PID/Manual Setting Unitless mode operation.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
78
Values that are sent:
- 0 = PID mode.
- 1 = Manual mode.

Write Setting Value Lock Unitless.

Description of this command:
Sets the Setting Value Lock Unitless current value.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
75
Values that are sent:
- 0 = Unlocked
- 1 = Lock 1
- 2 = Lock 2

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Write Remote/Local Temp. Ctrl. Setpoint Unitless

Description of this command:
Sets the Remote/Local Temp. Ctrl. Setpoint Unitless current state.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
82
Values that are sent:
- 0 = Local
- 1 = Remote

Write Touchtune Setting Unitless

Description of this command:
Sets the Touchtune Setting Unitless current state.
Methods used to run this command:
Analog Output / Digital Output
Number of points accepted by this command:
1
Meaning of the DriverP0 parameter:
Unit Address (0-31).
Meaning of the DriverP1 parameter:
89
Values that are sent:
- 0 = Cancel Touchtune
- 1 = Perform Touchtune

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
[1433] PROTOCOL (Format): Validation error in device response
[2147] CONFIG (NumValues): Only one value can be read or written
[2206] CONFIG (NumValues): Too many values (max=3)
[3007] CONFIG (P0): Invalid device address
[3508] CONFIG (P1): Invalid command

Supported devices

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

BARBER COLMAN Temperature Controllers Model MAE
BARBER COLMAN Temperature Controllers Model MAQ

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