

DC1 Command Set

List of commands for the ICE DC1

Laser?

Description

Arguments:

```
[Int] CHANNEL
```

Example:

```
Laser? 1  
0n
```

I₂C Command Number: 16

Returns the status (on or off) of the current controller for the channel CHANNEL specified. CHANNEL can be either 1 or 2.

Laser

Description

Arguments:

```
[Int] CHANNEL  
[ASCII] On/Off
```

Example:

```
Laser 1 On  
0n
```

I₂C Command Number: 17

Turns the current on or off to channel CHANNEL. Returns the output of the command **LASER?** command.

CurrSet?

Description

Arguments:

```
[Int] CHANNEL
```

Example:

```
CurrSet? 1  
97.6
```

I₂C Command Number: 18

Returns the current setpoint (in mA) for channel CHANNEL.

CurrSet **Description**

Arguments:

```
[Int] CHANNEL  
[Float] CURRENT
```

Example:

```
CurrSet 1 80.12  
80.1
```

I₂C Command Number: 19

Sets the current for the channel CHANNEL. Returns the output of the command **CURRSET** command.

CurrLim? **Description**

Arguments:

```
[Int] CHANNEL
```

Example:

```
CurrLim? 1  
120
```

I₂C Command Number: 20

Returns the current limit (in mA) for channel CHANNEL.

CurrLim **Description**

Arguments:

```
[Int] CHANNEL  
[Float] CURRENT
```

Example:

```
CurrLim 1 130  
130
```

I₂C Command Number: 21

Sets the current limit for the channel CHANNEL. Returns the output of the command **CURRLIM** command.

ServoEn?

Description

Arguments:

```
[Int] CHANNEL
```

Example:

```
ServoEn? 1  
0n
```

I₂C Command Number: 22

Returns the status (on or off) of enabling the analog current modulation input for servoing the laser current for the channel CHANNEL specified. CHANNEL can be either 1 or 2.

ServoEn

Description

Arguments:

```
[Int] CHANNEL  
[ASCII] On/Off
```

Example:

```
ServoEn 1 On  
On
```

I₂C Command Number: 23

Turns the analog current modulation input on or off to channel CHANNEL. Returns the output of the command **SERVOEN?** command.

EvtData?

Arguments: **Description**

```
[Int] CHANNEL  
[Int] ROW
```

Example:

```
EvtData? 1 3  
67.34
```

I₂C Command Number: 25

Returns the current setting in the Event Jump Table for channel CHANNEL and row ROW.

EvtData

Description

Arguments:

```
[Int] CHANNEL  
[Int] ROW  
[Float] CURRENT
```

Example:

```
EvtData 1 3 78.12  
78.1
```

I₂C Command Number: 26

Sets the current to CURRENT in in the event table for row ROW and channel CHANNEL.

EvtNum?

Description

Arguments:

```
[Int] CHANNEL
```

Example:

```
EvtNum? 1  
7
```

I₂C Command Number: 27

Reads the number of jump rows to loop through for channel CHANNEL in the jump event system. Range from 2 - 8. If set to 4, then the sequence of jump rows will be 1,2,3,4,1,2,3,4,1... where the numbers correspond to the **ROW** set when loading data in with the EvtData command.

EvtNum Description

Arguments:

```
[Int] CHANNEL  
[Int] NUMBER
```

Example:

```
EvtNum 1 5  
5
```

I₂C Command Number: 28

Sets the number of jump rows to loop through for channel CHANNEL in the jump event system. Range from 2 - 8. If set to 4, then the sequence of jump rows will be 1,2,3,4,1,2,3,4,1... where the numbers correspond to the **ROW** set when loading data in with the EvtData command.

EvtJRow? Description

Arguments:

```
[Int] CHANNEL
```

Example:

```
EvtJRow? 1  
3
```

I₂C Command Number: 29

Returns the next row that will be read from the Event Jump Table when the device gets an event matching the event set with the **EvtJUMP** command for channel CHANNEL.

EvtJRow Description

Arguments:

```
[Int] CHANNEL  
[Int] NEXT
```

Example:

```
EvtJRow 1 3  
3
```

I₂C Command Number: 30

Sets the next row that will be read from the Event Jump Table when the device gets an event matching the event set with the **EvtJUMP** command for channel CHANNEL.

EvtJump?

Description

Arguments:

```
[Int] CHANNEL
```

Example:

```
EvtJump? 1  
6
```

I₂C Command Number: 31

Reads the event address that channel CHANNEL lists to for jumping the laser current. Address range is 0-7 where address 0 is no event.

EvtJump

Description

Arguments:

```
[Int] CHANNEL  
[Int] ADDRESS
```

Example:

```
EvtJump 1 5  
5
```

I₂C Command Number: 32

Sets the event address that channel CHANNEL lists to for jumping the laser current. Address range is 0-7 where address 0 is no event.

EvtLOff? **Description**

Arguments:

```
[Int] CHANNEL
```

Example:

```
EvtLOff? 1  
4
```

I₂C Command Number: 33

Reads the event address for turning the laser off on channel CHANNEL. Address range is 0-7 where address 0 is no event.

EvtLOff? **Description**

Arguments:

```
[Int] CHANNEL  
[Int] ADDRESS
```

Example:

```
EvtLOff? 1 2  
2
```

I₂C Command Number: 34

Sets the event address for turning the laser off on channel CHANNEL. Address range is 0-7 where address 0 is no event.

Pulse? **Description**

Arguments:

```
[Int] CHANNEL
```

Example:

```
Pulse? 1  
0n
```

I₂C Command Number: 35

Returns the state of the laser pulse (whether shunting current away from laser or not) on channel CHANNEL.

Pulse

Description

Arguments:

```
[Int] CHANNEL  
[ASCII] STATE
```

Example:

```
Pulse 1 Off  
Off
```

I₂C Command Number: 36

Sets the state of the laser pulse (whether shunting current away from laser or not) on channel CHANNEL.

From: <https://www.vescent.com/manuals/> - **Product Manuals**

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Last update: **2021/08/26 14:26**

