

Command:WRDAC

On Tiger with TGLED

Format	[Addr#]WRDAC X=[1 to 100]
Units	Percentage between 0 and 100
Type	Card-Addressed
Remembered	Using [Addr#]SS Z

This command is “recycled” for a slightly different use in TGLED than for other cards. In the context of a TGLED card this command is used to set the maximum amount of current for all the LED channels.

The Maximum amount of current a TGLED Rev A card can output on each LED channel is 1.2Amps. When the X argument is set to 75, then maximum current each channel will output is reduced to 75% of 1.2Amps i.e. 0.9Amps.

This command can be used as a quick way to adjust the brightness of all LED channels. Default is 75%, ASI recommends not exceeding this limit.

Example

```
1WRDAC X=50
:A
```

Limits the maximum current output on each channel to 50% or 0.6Amps

```
1WRDAC X?
X=50 :A
```

Queries the card for maximum current percentage.

On MS2000 and RM2000

Format	WRDAC X=[0 to 10]
Units	Voltage, 0 to 10V
Firmware Required	8.4f+

Lets the user set the voltage on header pin SV1-5 on WK2000 board. The voltage can be varied between 0 and 10 Volts, with an accuracy of 0.1V. Maximum Output drive current is 35mA. Input value in volts. Does not work with Piezo units.

Example

```
WRDAC X=1.1
:A
```

Voltage on PIN SV1-5 is 1.1Volts

```
WRDAC X=20
:N-4
WRDAC X=- 1
:N-4
```

Parameter out of range

On Tiger with TGPMT

Format	[Addr#]WRDAC X=[0 to 1000] Y=[1 to 1000]
Units	integer, between 0 and 1000
Type	Card-Addressed
Remembered	Using [Addr#]SS Z

This command is "recycled" for a slightly different use on TGPMT card than for other cards . In the context of a TGPMT card this command is used to set the PMT's control voltage or gain. When set to 0 , PMT output signal drops to 0Volts , turning it off. When set to 1000 , 100% of control signal (1 Volts incase of H10722) is applied to the PMT.

X sets the gain for PMT0

Y sets the gain for PMT1

This function does the same function as the Dials on TGPMT cards faceplate.

Example

```
7 wrdac x? y?
X=500.000000 Y=0.000000 :A
```

Queries the TGPMT card at Address 7 for PMT gain settings. PMT0 is at 50% gain , PMT1 is at 0% gain and so is off.

```
7wrdac x=505
:A
```

Sets the gain of PMT0 at 50.5% on TGPMT card at address 7

[commands](#), [led](#), [tiger](#), [ms2000](#), [tgled](#), [tgpmt](#), [dac](#)

From: <http://asiimaging.com/docs/> - **Applied Scientific Instrumentation**

Permanent link: <http://asiimaging.com/docs/commands/wrdac>

Last update: **2019/04/18 23:33**

