

Command:HERE (H)

The 'here' command differs on a TGPMT card from our other systems.

Actuators, Piezos, MicroMirror etc

MS2000 or RM2000 syntax

The HERE command sets the current reported position(s) of the axis(es) provided.

Shortcut	H
Format	HERE [axis]=[position in 1/10 microns]...
Units	1/10 microns
Remembered	Automatically

Tiger syntax

Shortcut	H
Format	HERE [axis]=[position in 1/10 microns] or see below for clocked devices
Units	1/10 microns
Type	Axis-Specific
Remembered	Automatically

Assign the specified number to the axis's current position buffer. If no position is specified, 0 is assumed. For non-clocked devices, the unit of measurement is in tenths of microns. This defines the current position to be a specific distance from the origin (0).

Clocked Devices:

On clocked devices (filter slider, turret, mirrored port switch, etc), you can *change position #1* or you can *change the spacing between positions*.

Change position #1

1. Remove all axes from either the joystick or a knob (for example, the Z-axis from the Z-knob J Z=0).
2. Assign the clocked device axis to that joystick or knob (for example, the M-axis to the Z-knob J M=22).
3. Use the joystick or knob to adjust the axis to the desired position.
4. Issue the 'here' command to set the position (for example, the M-axis H M=1).
5. Restore (assign and unassign) the desired axes to the joystick / knobs as desired (for example, the M-axis from and the Z-axis to the Z-knob J M=0 Z=22).

Change the spacing between positions:

1. Move to position #2 (for example, the M-axis M M=2).
2. Remove all axes from either the joystick or a knob (for example, the Z-axis from the Z-knob J Z=0).
3. Assign the clocked device axis to that joystick or knob (for example, the M-axis to the Z-

knob J M=22).

4. Use the joystick or knob to adjust the axis to the desired position.
5. Issue the 'here' command to set the spacing (for example, the M-axis H M+.
6. Restore (assign and unassign) the desired axes to the joystick / knobs as desired (for example, the M-axis from and the Z-axis to the Z-knob J M=0 Z=22).

Only available on MS2000 version 9.2m and above, TG1000 version 3.28 and above.

If there are no errors, the positive reply :A will be sent back from the controller

DOES NOT WORK FOR PIEZOS AND MICROMIRRORS.

<del> DOES NOT WORK FOR "CLOCKED DEVICES" SUCH AS FILTER SLIDERS AND TURRETS.</del>

Example

```
H X=1234 Y=4321 Z
:A
```

The X position will change to 123.4 microns from the origin, Y will change to 432.1 microns, and the Z will be zeroed.

TGPMT usage

Shortcut	H
Format	HERE [axis] or HERE [axis]=0
Type	Axis-Specific
Remembered	Automatically

On a TGPMT card, this command is used to Zero the PMT signal reported by the [RDADC command](#). When this command is issued, the current PMT signal is saved, and the controller begins subtracting it from the current PMT signal. Users can use this as a background subtract or offset feature.

User can cancel the zeroing by issuing HERE [axis]=0. Readings reported by [RDADC command](#) will not be altered anymore.

Only the readings reported by the [RDADC command](#) are altered. 0-4V Analog PMT signal on the BNC connector is not altered.

This is a card wide-settings, both PMT0 and PMT1's reading are altered.

More details [here](#).

Example

```
H M
:A
```

If the TGPMT card axis char is **M**. Saves the current PMTs readings and starts subtracting them from the RDADC commands reported readings.

```
H M=0  
: A
```

If the TGPMT card axis char is **M**. Clears the saved PMTs readings and stops subtracting them from the RDADC commands reported readings.

[tgpmt](#), [commands](#), [tiger](#), [ms2000](#)

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