



microTargeting™ Controller Firmware ver. 2.14

Directions For Use

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"Innovation through collaboration"



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Product Feature:

Often, it will be desirable to begin an electrode pass with the Z-drive at some value below zero in order to reduce the distance one must traverse to get to the target depth. Firmware release 2.14 enables the microTargeting™ Controller to support this practice by providing the ability to specify the initial starting depth of the Z-drive. Use of this feature is not obligatory; all functionality of the microTargeting™ Controller remains unchanged if the feature is not engaged.



WARNING: see the microTargeting™ Drive Accessories User Guide

For Example:

The expected target depth is at 30mm and electrode recording is to be performed from a depth of 10mm down to 40mm. In order to eliminate time spent advancing the Z-Drive from 0mm down to 10mm, the Z-Drive is initially set to a starting position of 10mm. In this scenario, a Target value of 30000 and an Initial Offset value of 10000 are sent to the microTargeting™ Controller. One may also enter a Limit value of 40000 to prevent inadvertently advancing more than 10mm past the expected target location. Now, when the controller is zeroed, it will initially display a depth of 10mm. As you advance, the depth will count up reaching the expected target location at 30mm. With the Limit set at 40mm, the controller will not advance beyond a reading of 40mm.

In this example, had the microTargeting™ Controller been in Distance from target display mode, it would display a starting depth of -20mm when zeroed. Target would be reached when the depth display read 0mm. With the Limit value set to 40000, the controller will not advance beyond a reading of +10mm.

Use of this feature:

The Initial Offset is set over the serial interface:
The command O##### enters the Initial Offset depth with ##### being the depth in microns from zero. Entering O alone prompts the microTargeting™ Controller to report the current offset depth. The Initial Offset location can be set at any value but cannot exceed the limit value.

Reminder: If at any time you are unsure of your offset depth, pressing the reset button on the front of your Controller will display the offset depth.

When an Initial Offset is specified the Auto-retract function will return the drive to the set initial offset depth. A second button press will return the drive to the theoretical zero point.

The Initial Offset value will reset to a value of 0 every time the microTargeting™ Controller is turned off.