



# SmartTool Calibration

The calibration process is simple and takes about 2 minutes. Just remember:

1. For best results perform all 8 calibration steps. If “CAL ALL” shows in the display, perform all 8 calibration steps.
2. The flat surface you are using doesn't have to be exactly level (horizontal) or plumb (vertical). However, if the surface exceeds 5 degrees off of level or plumb the display will show three dashes (- - -) indicating the surface is not acceptable for calibration
3. Always put the SmartTool in the same, exact place on the horizontal surface for each level step or vertical surface for each plumb step
4. After moving the SmartTool for the next calibration step, wait until the display stops changing (10 seconds to be safe) before pushing the calibrate button for each step. Release the button after the display starts to show the angle reading (flashing after Cal 1 steps and not flashing after Cal 2 steps).
5. The instructions work for the module (as shown in the following pages), the 24", or the 48" level. Calibration instructions are also included in the user's manual.

LCD Display

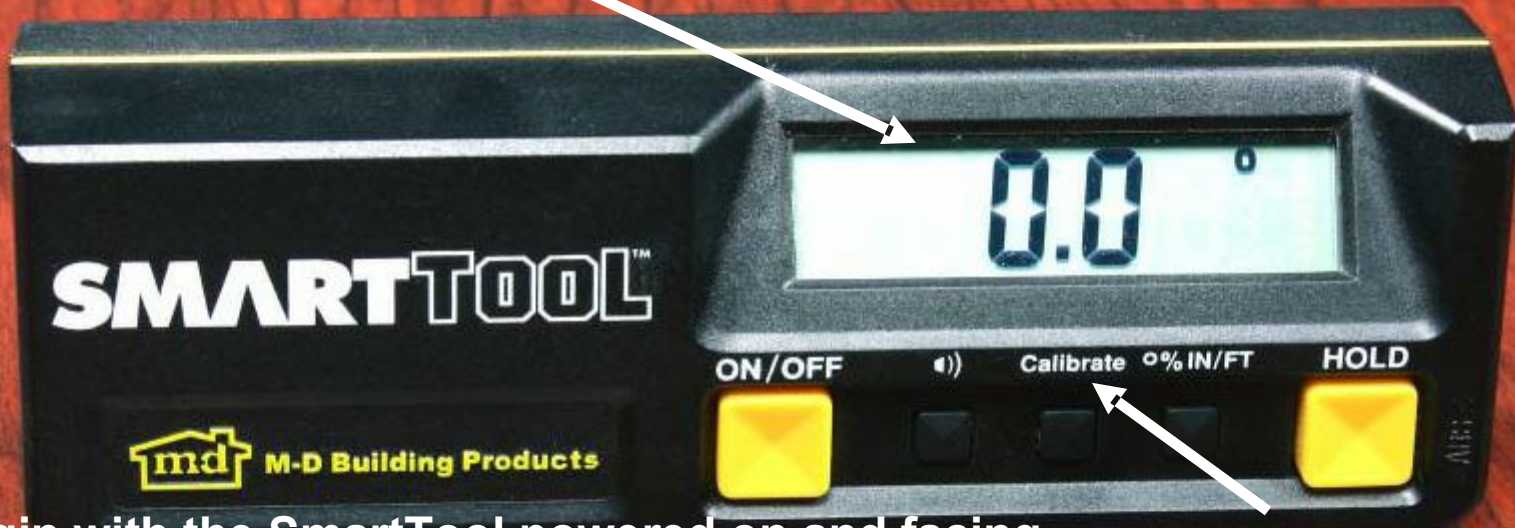
Bubble Vials



6. Recalibrate if the tool is dropped or if temperatures exceed 20 degrees difference since the last calibration.
7. You CANNOT hurt the electronics. If you make a mistake, just turn the level off and start over.
8. If the level does not respond as described in the steps shown, turn the level off and start over.

# Step 1

LCD Display



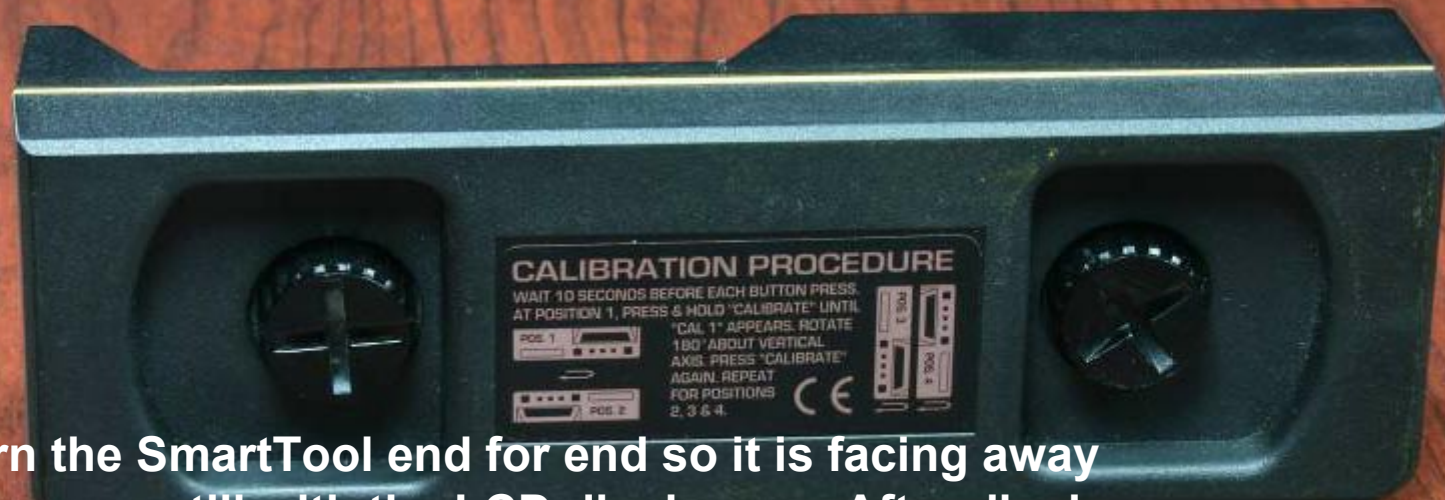
Calibrate Button

Begin with the SmartTool powered on and facing you, with the LCD display up. After display stops changing (wait 10 seconds to be safe), carefully press and hold the “Calibrate” button until “Cal 1” shows on the display. (See picture inset)

Angle reading will appear and flash. Release calibrate button.



## Step 2



Turn the SmartTool end for end so it is facing away from you, still with the LCD display up. After display stops changing (wait 10 seconds to be safe), carefully press and hold the "Calibrate" button until "Cal 2" shows on the display. (See picture inset) Angle reading will appear without flashing. Release calibrate button.



## Step 3



Place the SmartTool upside down turn it so it is facing toward you with the LCD display down. After display stops changing (wait 10 seconds to be safe), carefully press and hold the “Calibrate” button until “Cal 1” shows on the display. (See picture inset) Angle reading will appear and flash. Release calibrate button.



## Step 4



Turn the SmartTool end for end so it is facing away from you, still with the LCD display down. After display stops changing (wait 10 seconds to be safe), carefully press and hold the “Calibrate” button until “Cal 2” shows on the display. (See picture inset) Angle reading will appear without flashing. Release calibrate button.



## Step 5

Place the SmartTool on a flat vertical surface so the LCD is at the bottom and away from the vertical surface. After display stops changing (wait 10 seconds to be safe), carefully press and hold the “Calibrate” button until “Cal 1” shows on the display. (See picture inset) Angle reading will appear and flash. Release calibrate button.



## Step 6

Still on the vertical surface, turn the SmartTool so it is facing the opposite direction, with the LCD still at the bottom but now toward the vertical surface. The end of the SmartTool that was at the top in Step 5 should still be at the top. After display stops changing (wait 10 seconds to be safe), carefully press and hold the “Calibrate” button until “Cal 2” shows on the display. (See picture inset) Angle reading will appear without flashing. Release calibrate button.



## Step 7

Still on the vertical surface, turn the SmartTool so the LCD is now at the top and toward the vertical surface. The end of the SmartTool that was at the top in Step 6 should now be at the bottom. After display stops changing (wait 10 seconds to be safe), carefully press and hold the “Calibrate” button until “Cal 1” shows on the display. (See picture inset) Angle reading will appear and flash. Release calibrate button.





## Step 8

Still on the vertical surface, turn the SmartTool so the LCD is still at the top but now away from the vertical surface. The end of the SmartTool that was at the top in Step 7 should still be at the top. After display stops changing (wait 10 seconds to be safe), carefully press and hold the “Calibrate” button until “Cal 2” shows on the display. (See picture inset) Angle reading will appear without flashing. Release calibrate button.

