The VC4000 accelerometer **calibration** can be checked easily using this tool. Select **Cal. Check** from the Tools list. The VC4000 will prompt you to rotate the unit onto its back, front, right side, left side, top and bottom. Vericom offers calibration certificates for those that require annual calibration.

Conduct the Calibration Check on a reasonably level desk. All connectors should be unplugged from the back of the unit when performing this check. The mounting-bracket and single suction cup mount should be removed from the VC4000.

The first prompt is to set the VC4000 on its back, with the longitudinal accelerometer reading gravity, -1Gx. Turn the unit so its back panel where the connectors are located is facing down flat on the desk and the display is facing up. Hold it there until the unit beeps.

**Figure 1: Calibration check on back**

The second prompt is to turn the VC4000 onto its front, with the longitudinal accelerometer reading gravity in the opposite direction, +1Gx. Turn the unit so its display and keypad are facing down, with the lower half of the unit flat on the desk. Hold it there until the unit beeps.

**Figure 2: Calibration check on front**
The next prompt is to turn the unit on its right side, with the lateral accelerometer reading gravity, -1Gy. The right side is the side closest to the CLEAR / NO key. Set the VC4000 on its right side as straight as possible. Since the sides are not completely flat use a square or other right angle to prop against the bottom to keep the bottom perpendicular to the surface. Hold it there until the unit beeps.

**Figure 3: Calibration check on right side**

Next turn the unit on its left side, +1Gy. Hold it there until the unit beeps.

**Figure 4: Calibration check on left side**

Next turn the unit so its top is flat on the level surface, so the vertical accelerometer is reading gravity, -1Gz. The top is the area with the VERICOM logo. Hold it there until the unit beeps.

**Figure 5: Calibration check on top**
Finally turn the unit so the bottom is flat on the level surface with the vertical accelerometer reading gravity, +1Gz. If the ball mount is attached to the bottom of the unit you will have to hold the unit flat with the ball mount hanging over the edge. Hold it there until the unit beeps.

Figure 6: Calibration check on bottom

![Calibration check on bottom](Image)

The VC4000 will show the X, Y and Z axis calibration information. The total range for the X and Y accelerometer should be \(1.000 \pm 0.010\) and the Z should be \(1.000 \pm 0.020\).

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