



HR MAT™ SYSTEM PERFORMANCE USING CALIBRATION METHODS

Calibration is a procedure to convert the *HR Mat* sensor's raw digital output into engineering units such as force in pounds (lb), kilograms (kg) or newtons (N), and pressure in pounds per square inch (psi), kilograms per square centimeter (kg/cm²) or kilopascals (kPa).

For the *HR Mat* system, with walking trials, there are two recommended methods: **Step** and **Walk**. For standing trials, there are two standard methods: **Step** and **Point**. Each method has been compared to a force plate, and their mean differences in force values are reported below. A description of the calibration methods can be found in the *HR Mat* help file and user manual.

- *Step Calibration*: occurs while stepping onto the sensor with one foot
- *Walking Calibration*: occurs during walking
- *Point Calibration*: occurs after stepping onto the mat with one foot or both feet

WALKING TRIALS

STEP CALIBRATION METHOD

- Mean Difference vs. Force Plate: **4.1%**

WALK CALIBRATION METHOD

- Mean Difference vs. Force Plate: **5.3%**



WALKING TRIALS

STANDING TRIALS

STEP CALIBRATION METHOD

- Mean Difference vs. Force Plate: **4.1%**

POINT CALIBRATION METHOD

- Mean Difference vs. Force Plate: **3.6%**



STANDING TRIALS

Contact us today for a demonstration!

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