



#### GRAVITY CORRECTION AND CALCULATED VALUE

Amsterdam	9.813 m/s <sup>2</sup>	0.999369	Madrid	9.800 m/s <sup>2</sup>	1.000461
Athens	9.807 m/s <sup>2</sup>	1.000694	Manila	9.784 m/s <sup>2</sup>	1.000461
Auckland, NZ	9.799 m/s <sup>2</sup>	1.00078	Mexico City	9.779 m/s <sup>2</sup>	1.002102
Bangkok	9.783 m/s <sup>2</sup>	1.00239	New York	9.802 m/s <sup>2</sup>	1.000433
Brussels	9.811 m/s <sup>2</sup>	0.99950	Oslo	9.819 m/s <sup>2</sup>	0.998726
Buenos Aires	9.797 m/s <sup>2</sup>	1.00100	Ottawa	9.806 m/s <sup>2</sup>	1.000007
Calcutta	9.788 m/s <sup>2</sup>	1.00191	Paris	9.809 m/s <sup>2</sup>	0.999048
Cape Town	9.796 m/s <sup>2</sup>	1.00104	Rio de Janeiro	9.788 m/s <sup>2</sup>	1.001884
Chicago	9.803 m/s <sup>2</sup>	0.99922	Rome	9.803 m/s <sup>2</sup>	1.000326
Copenhagen	9.815 m/s <sup>2</sup>	0.99075	San Francisco	9.800 m/s <sup>2</sup>	1.00070
Nicosia	9.797 m/s <sup>2</sup>	1.00093	Singapore	9.781 m/s <sup>2</sup>	1.00269
Jakarta	9.781 m/s <sup>2</sup>	1.00263	Stockholm	9.818 m/s <sup>2</sup>	0.99877
Frankfurt	9.810 m/s <sup>2</sup>	0.99957	Sydney	9.797 m/s <sup>2</sup>	1.00104
Istanbul	9.808 m/s <sup>2</sup>	1.000406	Taipei	9.790 m/s <sup>2</sup>	1.001741
Havana	9.788 m/s <sup>2</sup>	1.0001872	Tokyo	9.798 m/s <sup>2</sup>	1.000886
Helsinki	9.819 m/s <sup>2</sup>	1.001405	Vancouver, BC	9.809 m/s <sup>2</sup>	0.999653
Kuwait	9.793 m/s <sup>2</sup>	1.001405	Washington, DC	9.801 m/s <sup>2</sup>	1.000601
Lisbon	9.801 m/s <sup>2</sup>	1.000615	Wellington, NZ	9.803 m/s <sup>2</sup>	0.999399
London	9.812 m/s <sup>2</sup>	0.999445	Zurich	9.807 m/s <sup>2</sup>	0.999821
Los Angeles	9.796 m/s <sup>2</sup>	1.001028			

Find the city closest to your parallel and calculate the gravity correction or use our calculated values for the locations shown.

The method to calculate gravity correction is as follows.

Calculate the ratio of your gravity-location/standard gravity, and then divide the gravity correction reading by one if you are located inside the two 45<sup>th</sup> parallels. This will give you the correction value.

Example: (Lat -39) Cape Town 9.796 m/s<sup>2</sup>/ 9.80665 = 0.99891

1/ 0.99891 = 1.001091 is the gravity correction factor you enter in the C2 calibration screen.

For locations inside the 45<sup>th</sup> parallel divide the ratio results by 1.

For locations above the 45<sup>th</sup> parallel the results is the correction value.

You may need to adjust this number slightly due to elevation above sea level.

This is not a calibration method to correct of installation problems.

There is no gravity correction for traditional calibration.

Guideline Gravity correction above the 45th parallel (North and South) will be less than 1 and locations between the 45th parallel will be greater than 1.