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Magnetic Field Conversion Factors

Add the indicated value to convert from ↓ to →	dBuV/m	dB Gauss	dBpT	dBuA/m	dBWb/m ²	dB gamma
0 dB microvolts-per meter =	0	-209.5	-49.5	-51.5	-289.5	-109.5
0 dB gauss (1) =	209.5	0	160	158	-80	100
0 dB picotesla =	49.5	-160	0	-2	-240	-60
0 dB microampere-per-meter =	51.5	-158	2	0	-238	-58
0 dB weber per-square meter (2) =	289.5	80	240	238	0	180
0 dB gamma =	109.5	-100	60	58	-180	0

Multiply by the indicated value to convert ↓ to →	uV/m	Gauss	pT	uA/m	Wb/m ²	gamma
1 microvolt-per-meter =	1	3.33x10 ⁻¹¹	3.33x10 ⁻³	2.65x10 ⁻³	3.33x10 ⁻¹⁵	3.33x10 ⁻⁶
1 gauss(1) =	3x10 ¹⁰	1	1x10 ⁸	7.96x10 ⁷	1x10 ⁻⁴	1x10 ⁵
1 picotesla =	3x10 ²	1x10 ⁻⁸	1	7.96x10 ⁻¹	1x10 ⁻¹²	1x10 ⁻³
1 microampere-per-meter =	3.77x10 ²	1.26x10 ⁻⁸	1.26	1	1.26x10 ⁻¹²	1.26x10 ⁻³
1 weber-per-square meter =	3x10 ¹⁴	1x10 ⁴	1x10 ¹²	7.96x10 ¹¹	1	1x10 ⁹
1 gamma =	3x10 ⁵	1x10 ⁻⁵	1x10 ³	7.96x10 ²	1x10 ⁻⁹	1

Notes:

- (1) One gauss and one oerstead are equivalent and may be interchanged.
- (2) One weber-per-square meter and one tesla are equivalent and may be interchanged.
- (3) Decibel values are "rounded off" to the nearest 0.5 dB.