

Decibels

Technician Exam Preparation Class
June 2020
Session 18

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Decibels

The decibel (dB) is used to measure sound level, but it is also widely used in electronics, signals and communication. The dB is a logarithmic way of describing a ratio. The ratio may be power, sound pressure, voltage, or intensity or several other things.

Decibel Table

dB	Power Change
3 dB	2x Power Change
6 dB	4x Power Change
9 dB	8x Power Change
10 dB	10x Power Change
20 dB	100x Power Change
30 dB	1000x Power Change
40 dB	10,000 x Power Change

Going the Other Way

dB	Power Change
-3 dB	1/2 Power Change
-6 dB	1/4 Power Change
-9 dB	1/8 Power Change
-10 dB	1/10 Power Change
-20 dB	1/100 Power Change
-30 dB	1/1000 Power Change
-40 dB	1/10,000 Power Change

**Jot down any questions
you may have to ask
during the online meeting**