



Conversion from sound power to sound pressure according to

$$L_p = L_w - 10 \times \log \frac{S}{S_0}$$

in case of freefield area with semi-spherical sound emission:

$$L_p = L_w - 20 \times \log r - 8$$

$$L_p = L_w - 8 \quad \text{with } r = 1$$

Conversion from sound pressure to sound power according to

$$L_w = L_p + 10 \times \log \frac{S}{S_0}$$

in case of freefield area with semi-spherical sound emission:

$$L_w = L_p + 20 \times \log r + 8$$

$$L_w = L_p + 8 \quad \text{with } r = 1$$