

## Pressure Altitude

From the user, a station pressure ( $P_{sta}$ ) is given. To calculate the pressure altitude, the station pressure must be in units of millibars ( $mb$ ). To see how to convert station pressure to millibars see the link below:

[Pressure Conversion](#)

Then, the pressure altitude ( $h_{alt}$ ) can be calculated using the equation below:

$$h_{alt} = \left( 1 - \left( \frac{P_{sta}}{1013.25} \right)^{0.190284} \right) \times 145366.45$$

The answer will be in units of feet. To convert the answer to units of meters, see the equation below:

$$h_m = 0.3048 \times h_{alt}$$