

Voltage Presence Check Calculator

Document an absolute voltage-reading comparison against an entered display threshold and nominal-voltage reference without replacing approved absence-of-voltage procedures.

Generated October 10, 2026

<https://www.elecatrix.com/testing-protection-grounding/voltage-presence-check-calculator/>

Inputs

Input	Value	Unit
Measured voltage	0.8	V
Display threshold	1	V
Nominal voltage	120	V

Results

Result	Value	Unit
Absolute measured voltage	0.8	V
Threshold margin	0.2	V
Percent of nominal	0.6667	%

Status

Status	Value	Unit
Display-threshold comparison	At or below entered display threshold	

Calculation details

Detail	Value	Unit
Calculation basis	The calculation compares absolute measured voltage with the entered display threshold and nominal voltage.	
Testing boundary	Voltage display comparison only; absence-of-voltage procedure, meter proving, PPE, and safe-work decisions remain external.	

Formulas

$$\text{lvert } V_{\text{measured}} \text{rvert} = \text{operatorname{abs}}(V_{\text{measured}})$$

$$\text{Threshold margin} = V_{\text{threshold}} - \text{lvert } V_{\text{measured}} \text{rvert}$$

$$\text{Percent of nominal} = \frac{\text{lvert } V_{\text{measured}} \text{rvert}}{V_{\text{nominal}}} \times 100$$

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Warnings and limitations

This page does not prove absence of voltage, authorize energized work, verify meter category, or replace live-dead-live procedure.