

Megohm Test Trend Calculator

Estimate megohm change, percent change, daily change, and drop margin from comparable readings across known days.

Generated October 10, 2026

<https://www.elecatrix.com/testing-protection-grounding/megohm-test-trend-calculator/>

Inputs

Input	Value	Unit
Initial resistance	1000	MOhm
Latest resistance	800	MOhm
Days between readings	30	days
Allowed drop reference	25	%

Results

Result	Value	Unit
Change	-200	MOhm
Percent change	-20	%
Daily change	-6.6667	MOhm/day
Drop percent	20	%
Drop margin	5	%

Trend comparison

Within entered drop reference

Calculation details

Detail	Value	Unit
Calculation basis	Megohm trend compares latest and initial entered insulation resistance readings over entered days.	
Testing boundary	Trend arithmetic only; temperature correction, humidity, test voltage, and maintenance decisions remain external.	

Formulas

change = latest resistance - initial resistance

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$\text{percent change} = \text{change} / \text{initial resistance} \times 100$

$\text{drop percent} = \max(0, \text{initial resistance} - \text{latest resistance}) / \text{initial resistance} \times 100$

$\text{drop margin} = \text{entered allowed drop percent} - \text{drop percent}$

Warnings and limitations

This trend worksheet does not diagnose insulation condition, adjust for temperature or humidity, prescribe test voltage, or replace maintenance review.