

Insulation Test Trend Calculator

Estimate insulation resistance ratio, change, and percent change from start and end readings over an entered interval.

Generated October 10, 2026

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

Inputs

Input	Value	Unit
Starting resistance	100	MOhm
Ending resistance	250	MOhm
Elapsed time	10	min

Results

Result	Value	Unit
Resistance ratio	2.5	
Change	150	MOhm
Percent change	150	%
Change rate	15	MOhm/min

Trend comparison

Readings are non-decreasing

Calculation details

Detail	Value	Unit
Calculation basis	Insulation interval trend compares ending and starting entered resistance readings.	
Testing boundary	Interval arithmetic only; PI, DAR, test voltage, temperature correction, discharge, and acceptance remain external.	

Formulas

resistance ratio = ending resistance / starting resistance

change = ending resistance - starting resistance

change rate = change / elapsed minutes

Warnings and limitations

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This worksheet does not define PI, DAR, acceptance limits, temperature correction, discharge procedure, or equipment condition.