

Insulation Test Duration Calculator

Estimate test completion, remaining time, and planned readings from entered duration and reading-interval values.

Generated October 10, 2026

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

Inputs

Input	Value	Unit
Target duration	10	min
Elapsed duration	7	min
Reading interval	60	s

Results

Result	Value	Unit
Duration margin	-3	min
Completion	70	%
Remaining time	3	min
Planned readings	11	readings
Elapsed readings	8	readings
Duration comparison	Below entered target	
Calculation details		

Detail	Value	Unit
Calculation basis	The calculation compares elapsed minutes with the entered target and reading interval.	
Testing boundary	Timing arithmetic only; test voltage, acceptance criteria, discharge, and safety procedure remain external.	

Formulas

duration margin = elapsed duration - target duration

completion percent = elapsed duration / target duration x 100

remaining time = max(target duration - elapsed duration, 0)

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$\text{planned readings} = \text{floor}(\text{target seconds} / \text{reading interval seconds}) + 1$

Warnings and limitations

This page does not prescribe insulation-test duration, voltage, acceptance value, safety procedure, or equipment condition.