

Data Logger Interval Calculator

Calculate logger points, maximum interval, and raw storage from duration, logging interval, channel count, and bytes per sample.

Generated October 10, 2026

<https://www.elecatrrix.com/testing-protection-grounding/data-logger-interval-calculator/>

Inputs

Input	Value	Unit
Duration	600	s
Logging interval	10	s
Required points	61	points
Channel count	3	channels
Bytes per sample	4	bytes

Results

Result	Value	Unit
Expected points per channel	61	points
Maximum interval for required points	10	s
Interval margin	N/A	s
Raw storage bytes	732	bytes
Raw storage kB	0.732	kB
Total channel records	183	records
Interval requirement status	at_or_below_required_interval	

Calculation details

Detail	Value	Unit
Calculation basis	Expected logger points include both the first point and each full interval in the entered duration.	
Screening boundary	Raw logging arithmetic only; storage overhead, timestamps, triggers, battery, and export format remain external.	

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Formulas

`expected points = floor(duration seconds / interval seconds) + 1`

`maximum interval = duration seconds / (required points - 1)`

`storage bytes = expected points x channels x bytes per sample`

Warnings and limitations

This worksheet does not verify logger memory, file overhead, timestamps, trigger modes, battery life, or data integrity.