SPONSOR DECISION BRIEF

Cold Box Logger

Should a sponsor cover a physical bench test of three prototype temperature loggers? First, check whether the simulated records meet the rule on every board.

98.89%
Board C coverage

Hold the funding decision.
Board C falls four readings short. Averages across the three boards would hide that failure.

What the test shows

One reading per minute for 48 hours gives 2,880 expected readings per board. Each board must record at least 99%, or 2,852 readings.

Board	Readings	Result
A	2,867	Pass
B	2,855	Pass
C	2,848	Fail

To reproduce the table, sum `recorded` for each board in the CSV and compare each sum with 2,852. A zero marks a missing simulated reading.

What the next test would cost

The fictional founder has firmware, enclosure drawings, a laptop and access to a borrowed bench.

Delivered parts and enclosures	$950
Assembly of three loggers	$550
Independent test and raw logs	$1,000
Uncovered project cost	**$2,500**

All figures are US dollars and estimates. The separate sponsor assessment fee is US$750. Suppliers and a reviewer have yet to quote.

Before a funding decision

Repeat Board C's simulated scenario. Obtain delivered quotes, a qualified independent reviewer and a date for the physical test. Physical performance and the cause of the missing readings remain open.

The fixture illustrates a decision method. It contains simulated records only. The sponsor decides whether to fund the next test.