Checking a Humidity Reading After a Reversal

Scoring guide · one credit per question · review written work against each rubric

Checking a Humidity Reading After a Reversal

Question 1

Choice (2)

The rising and falling readings differ by 6 percentage points at 45%, versus 2 at each other reference.

Question 2

At 45% it reads 42% while rising and 48% while falling. Adding 3 points fixes the first but worsens the second. The two readings require adjustments of opposite signs.

Question 3

Approach a verified 45% from below in one run and from above in the other. For example, use the same time before recording the sensor reading in both. Readings that agree within measurement uncertainty support the claim.

Question 4

Matching at 43% supports the claim about direction under these conditions. Both readings are 2 percentage points below the 45% reference, so they are still low.