
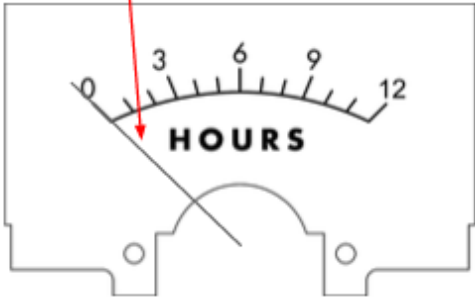





Test	Setup	Good	Bad
<p>Test 1: The meter can be aligned to zero with a screw driver.</p>	<div data-bbox="386 237 842 418"></div> <div data-bbox="390 453 596 482"><p>Lined up on the "0"</p></div> <div data-bbox="403 534 875 829"></div> <div data-bbox="371 878 711 909"><p>Adjust with a screwdriver.</p></div>	<div data-bbox="1167 298 1530 708"></div> <div data-bbox="1066 716 1325 781"><p>Needle is on "zero". Visual test.</p></div>	<div data-bbox="1682 220 1965 565"></div> <div data-bbox="1646 662 1965 1062"></div> <div data-bbox="1568 1097 2003 1167"><p>Needle does not line up to "zero". Visual test.</p></div>

Test	Setup	Good	Bad
<p>Test 2: After Test 1, When $52.5\mu\text{A}$ are applied, the meter reaches past full scale.</p>	<div data-bbox="388 251 1008 609" data-label="Diagram"> <p>The diagram shows a circuit with a diamond-shaped current source labeled $52.5\mu\text{A}$ connected to a meter. Two test points, represented by circles, are connected in series between the current source and the meter. The meter is shown with a scale from 0 to 12. Below the diagram is a photograph of the physical meter.</p> </div> <p>Apply current.</p>	<div data-bbox="1113 267 1480 682" data-label="Figure"> <p>A close-up of the meter scale showing markings at 6, 9, and 12. The needle is positioned past the 12 mark, with a red arrow pointing to it and the label $52.5\mu\text{A}$.</p> </div> <p>Needle goes <i>past</i> the last mark. Visual test.</p>	<div data-bbox="1596 251 1963 1112" data-label="Figure"> <p>Two close-up views of the meter scale. The top view shows the needle at the 12 mark, not past it. The bottom view shows the needle slightly before the 12 mark. Both views have a red arrow pointing to the needle and the label $52.5\mu\text{A}$.</p> </div> <p>Meter did not reach <i>past</i> the end.</p>

What my purpose is with these tests:

I want to confirm that the meter can achieve the full range of motion. I can calibrate the signal sent to the meter, so I'm not testing for accuracy, I'm testing for how far the meter can move.

Questions:

Do they test 100% of the meters? Do they do statistical sampling? What other quality checks do they make?