

AgriEID Load Cell Testing Guide

What You Need

- A **digital multimeter** (any basic model from Bunnings, Jaycar, or Supercheap Auto).
- Four load cells (A, B, C, D) connected to your junction box.
- The **indicator cable unplugged** (power off).

Sample Affordable Multimeters

Here are some cheap, usable multimeters currently available from local or semi-local chains:



Ozito 300V 10A Digital Multimeter
\$18.98 • Bunnings Warehouse + ot...

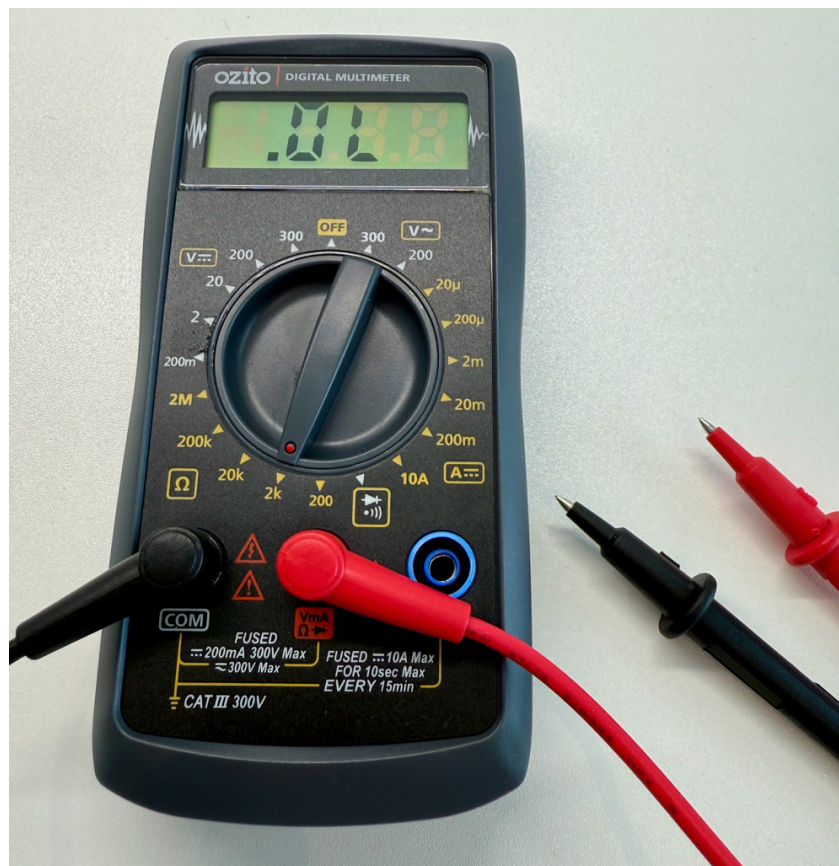


Click Hobbyist Multimeter
\$9.57 • Bunnings Warehouse



SCA Hobbyist Digital Multimeter
\$15.99 • Supercheap Auto AU + ot...

Select mode **2000 Ω** or **2K Ω** and plug black probe into **COM** and Red probe into **Ω**



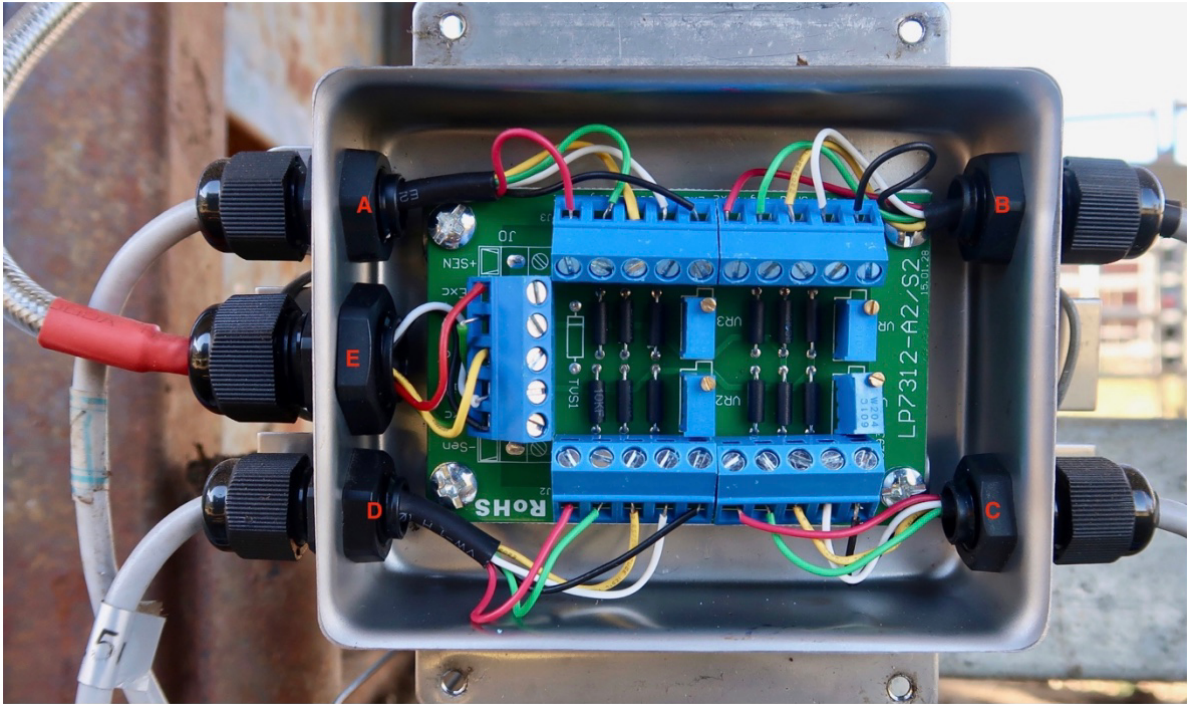
🔧 **Step 1 — Plug in Your Multimeter**

- 1. Put the **black lead** in the socket marked **"COM."**
- 2. Put the **red lead** in the socket marked **"V Ω mA."**
- 3. Turn the dial to the **Ω symbol** (Ohms).
 - Choose **2000 Ω** or **2 k Ω** range.
 - The screen will show numbers like **350 Ω** or **OL**.

● **Wire Colours and Their Jobs**

Wire Colour	Function	Description
● Red	Power + (Excitation +)	Sends voltage into the load cell
● Black	Power – (Excitation –)	Returns voltage
● Green	Signal +	Output from the cell
● White	Signal –	Return from the signal
● Yellow	Shield	Not used for testing

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Step 2 — Do the Two Main Tests

Test	Red Probe	Black Probe	Normal Reading	What It Means
Power Circuit	 Red	 Black	350 – 400 Ω	Power bridge OK 
Signal Circuit	 Green	 White	350 – 400 Ω	Signal bridge OK 

 **Good Cell:** Both readings are steady and within these ranges.

 **Bad Cell:** One reading is 0 Ω (short) or "OL" / ∞ Ω (open).

Step 3 — (Optional) Cross-Check Test

This is optional — the factory already checks it, but you can confirm.

Test	Red Probe	Black Probe	Normal Reading	Meaning
Any Power $\leftrightarrow$ Signal pair (Red–Green, Red–White, Black–Green, Black–White)	—	—	About 280 Ω (steady)	 Normal for AEID110-ss model — part of design
Any wire $\leftrightarrow$  Yellow (shield)	—	—	"OL" / ∞ Ω	 Shield isolated

 If every load cell shows roughly 280 Ω on cross-tests, that's normal — not a fault.

Step 4 — Compare All Load Cells

All four load cells should show:

- Around 350 – 400 Ω for both main tests
- Around 280 Ω for cross-tests
- Readings within about ± 5 Ω of each other

If one is very different, that load cell might be damaged.

If you need any further assistance, please email our friendly support team at info@agrieid.com