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<https://rbdinstruments.com/products/picoammeter.html>

9103 FAQ

Can the 9103 measure femto amps?

No. The lowest practical current that the 9103 can measure is low 10s of pA, and that is on the 2nA scale (2,000 pA). For femto amp current measurements RBD suggests the Keysight B2981A Femto Picoammeter.

Can the 9103 measure 20 mA?

No. The maximum current that the 9103 can measure is 2.4 mA. For 20 mA range current measurements RBD suggests the Keysight B2981A Femto Picoammeter.

Does the 9103 have a digital front panel meter? How do we see what the 9103 is telling us?

No, the 9103 does not have a digital front panel meter. The current is displayed in the Actual software app. Actual is included with the 9103 and runs on any Windows PC running Windows 7, 8, and 10.

Does the 9103 work with LabVIEW?

Yes, the 9103 works with LabVIEW. In fact, RBD provides complementary 3rd party scripts, but these are not directly supported by RBD.

Does the 9103 come with a multi-channel option?

No. However, you can link up to 128 9103s together.

What are the bias options and why would I use them?

There are two bias options available, the external bias and the 90V internal bias. Note that neither of these options is available for the high voltage version of the 9103 (91035K).

For information about why you would use an internal or external bias, please see this [blog post](#).

My 9103 suddenly stopped reading current. Is there an easy thing to check?

Yes, check the fuse.

1. Turn off the unit, disconnect any cables to the 9103, and check the fuse. To check the fuse:
2. Remove the 5 torx screws from the front panel using the #10 torx driver that you received with your 9103.
3. Slide the front panel partially out of the case. The small round fuse is located in the front right, plugged into a silver panel.

4. Gently remove the fuse and replace with a new fuse. (Two spare fuses were included with your 9103.)
5. Reassemble the front panel.
6. Use the 9103 as you normally use it.
7. Contact support@rbdinstruments.com if the 9103 is still not working properly or if you need to order more fuses.

If the fuse solved the problem, try to determine what caused the fuse to blow and take corrective action.