

Adjusting the Fluke 732A to the New Volt

The Fluke 732A Direct Voltage Reference Standard is designed as a primary reference, and we recommend that it be assigned a new value rather than adjusted to accommodate the new volt. However, many use the 732A as a working standard or a 10-volt calibrator, and for those applications, adjustment may be appropriate.

To adjust a 732A, its output should be compared to a reference using a Fluke 8506A digital multimeter, or an equivalent, as a null meter. Because the adjustment potentiometer has a range of only ± 5 ppm, jumpers on an internal printed circuit board must be changed to increase the 732A's output. The jumpers should be changed to provide nominal output with the adjustment potentiometer approximately centered. It is important to compare the 732A to the reference and record the results both before and after the adjustment is made to correct any mistakes that might occur during the process. For more information concerning Fluke's recommended 732A adjustment procedure, contact your local Fluke representative.

Telephone Support

We have a trained staff to respond to telephone inquiries about the changes in the volt and ohm. Our operators will connect you to the engineer or metrologist who has the solutions to your problems. Simply call 800-44-FLUKE. (In Canada, call (416) 443-5853. From other countries, call (206) 356-5500 or your local representative.) Ask for extension 554.

Additional Assistance

If after reviewing this application note and NIST Bulletin 1263 you still have questions regarding these changes, you may find it helpful to contact one of the following volunteer members of NCSL Technical Advisory Group 91.4.1.

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Your national laboratory will have all the information you need to accommodate the 1990 volt and ohm change. If you experience difficulty obtaining assistance, contact your local Fluke representative.