

Calibration & Accuracy Verification Procedures

For 822 & 832 Meters

Mechanical Calibration (required only on model 822):

1. With the power turned off, install a jumper on terminal strip TB1 between terminals 0 and 1.
2. Adjust the 822's mechanical zero (needle pointing to zero with power off) by turning the screw located directly behind the meter movement.

Power Supply Board Calibration:

1. Remove the previously installed jumper (Mechanical Calibration step 1).
2. Place the common lead (-) of a Digital Volt Meter (DVM) on TB1 terminal 1.
3. Place the positive lead (+) of the DVM on pin 1 of IC U1.
4. Turn on the power.
5. Adjust R13 on the power supply board until the DVM reads 10.20 VDC \pm 0.01 VDC.

Analog Board Calibration:

1. Connect the calibrator/simulator via the patch cord or fixed resistors to TB1 terminals 1 thru 4.
2. Dial X1 on 822/832's range switch .
3. Place the DVM's common lead (-) on TB1 terminal 1, and the positive lead (+) on TB1 terminal 0.
4. Adjust R1 on analog PCB until DVM reads 5.00 VDC \pm 0.05 VDC.
5. Turn the 822/832's range switch to "CHECK" and hold it at this position.
6. Adjust R29 on analog PCB until DVM reads:
 - For 822: 10.00 VDC \pm 0.05 VDC
 - For 832: 5.00 VDC \pm 0.05 VDC

Digital Board Calibration (required only on model 832):

1. While holding the 832's range switch in the "CHECK" position, turn R1 on the digital PCB until the 832's digital display reads 10.0 \pm 0.1.

<p>10 MΩ Calibrator/simulator Pinout:</p> <p style="text-align: center;"> 100.0 KΩ between pins 1 and 2 10.0 KΩ between pins 2 and 3 180.0 KΩ between pins 2 and 4 </p> <p>NOTE: It may be necessary to connect a ground wire internally between earth ground (Pin 9, TB2) and cell ground (Pin 1, TB1) to avoid ground pickup problems.</p>	
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