2831B Calibration Procedure

Note: Warm up 30 minutes before proceeding calibration procedure

DCV:

- 1. Set function at Voltage
- 2. Set RANGE at 200mV, connect to V/Ohm input with 190mVDC, Adjust VR2to get reading 190.0 •
- 3. Set RANGE at 2V , connect V/Ohm input with 1.9VDC , adjust VR3 to get DISPLAY reading 1.900 .
- 4. Set RANGE at 20V , input 19VDC , adjust VR4 to get $\,$ reading 19.00 \circ
- 5. Set RANGE at 200V, input 190VDC, adjustVR5 to get reading 190.0 •
- 6. Set RANGE to 1200 V , input 1000 VDC , adjust VR6 to get reading 1000 \circ

ACV:

- 1. Set function at current and press DC/AC switch \circ Set at 2000mA range, adjust VR19 to get reading 000.0 \circ
- 2. Set range at AC200mV, input 190mV/50Hz, adjust VR20 to get reading 189.9~189.8mV
- 3. Set RANGE at AC1200V, connect V/Ohm input with 1KHz/1000VACadjust VC1 to get DISPLAY1000 •
- 4. Set RANGE at AC200V, input 1.9KHz/190VAC, adjust VC4 to get 190.0 •
- 5. Set RANGE at AC20V $\,^{,}$ input 2.5KHz/19VAC $\,^{,}$ adjust VC3 to get 19.00 $\,^{,}$
- 6. Set RANGE at AC2V, input 2.5KHz/1.9VAC, adjust VC2to get reading 1.900 •

DCA:

- 1. Set function at DCA and RANGE at 20A $\,^{\circ}$ input 10A to 20A terminal. Adjust R55to get DISPLAY10.00 $\,^{\circ}$
- 2. Set RANGE to 2000mA , connect 1.9A to 2A terminal , adjust VR7 to get reading 1900 \circ
- 3. Set range to 200mA, connect 190mA to 2A input, adjust VR8 to get reading 190.0 •
- 4. Set RANGE at 20mA, connect 19mA to 2Ainput, adjustVR9 to get 19.00 o
- 5. Set RANGE to 2mA $^{\circ}$ connect 1.9mA to 2Ainput $^{\circ}$ adjust VR17 to get 1.900 $^{\circ}$
- 6. Set RANGE to 200 μA , connect 190 uA to 2A terminal , adjust VR18 to get reading 190.0 \circ

Resistance:

- 1. Set the function at Ω function \rightarrow set RANGE to 200 Ω \rightarrow connect V/Ohm to GND terminal and adjust VR16 to get 000.0 \rightarrow
- 2. Set RANGE to $2M\Omega$, connect 1.9M between V/Ohm and GND , adjust VR15 to get DISPLAY 1900 \circ
- 3. Set RANGE to 20M $\!\Omega$, connect 19M $\!\Omega$, adjust VR10 to get reading 19.00 \circ
- 4. Set RANGE to 200K Ω , connect 190K Ω , adjustVR11 to get reading 190.0 $^{\circ}$
- 5. Set RANGE to $20 \mathrm{K}\Omega$, connect $19 \mathrm{K}\Omega$, adjust VR12 to display 19.00 •
- 7. Set RANGE to $2K\Omega$, connect $1.9K\Omega$, adjust VR13 to get reading 1.900.
- 8. Set RANGE to 200 Ω , connect 190 Ω , adjust VR14 to get reading 190.0 $^{\circ}$