7929 SW Burns Way
Suite B
Wilsonville, OR

Phone: 503 344-5085
Fax: 503 682-9014
sales@rinehartmotion.com

RMS DC Voltage Calibration Process

Revision 0.1

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Revision History

Version	Description of Versions / Changes	Updated by	Date
0.1	Initial version	Azam Khan	7/9/2012

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DC Voltage Calibration Process

1. Find out if the unit (unit under test, UUT) to be calibrated is DZ or DX.

2. Power up the UUT and load the default symbols file *defsyms_vdc_cal.txt*. It should contain only parameters relevant to DC voltage calibration.

3. Apply 400-V to the UUT if DX (600-V for DZ)

4. Measure the actual voltage using a volt-meter and enter it in the Excel spreadsheet *VDC Calibration.xlsx*.

5. Look up the voltage shown in ‘Memory View’ of the GUI and enter it in the second line of the spreadsheet. This completes data for the first set point.

6. Now, change the voltage to 250-V for DX units (400-V for DZ).

7. Repeat steps 4 and 5 to collect data for set point 2 and enter it in the Excel spreadsheet lines 3 and 4.

    8. Enter the values for VDC_AD_MAX_EEPROM_(V)_x_10 and VDC_OFFSET_EEPROM_(V)_x_10 in the spreadsheet, respectively.

9. New values for VDC_AD_MAX_EEPROM_(V)_x_10 and VDC_OFFSET_EEPROM_(V)_x_10 should be automatically calculated.

10. Enter these new values in the GUI and press the "Program EEPROM" button.