

# CAL300 Calibrator

4700, 4760 & 4300 DC Loads, 9200/9300 Battery Test Systems,  
9400 Series AC Test Instruments



## Key Features

- Automatic calibration without special skills
- Relatively low equipment costs
- Straight forward setup with cables provided
- Very low current (Energy Star) calibration capability
- PC control through LAN with SCPI & VXI-11 communications



*CAL300 - Calibration Instrument*

## Application

The CAL300 Calibrator is designed to be used with a user-provided 8 $\frac{1}{2}$  Digit DMM (Agilent/Keysight 3458A or equivalent) plus supplemental DC Sources or Power Resistor Box depending on the specific product family to be calibrated. Calibration software that includes full instructions on connection and use has already been provided in the Software Package that accompanied the original product.

## Ease of Use & Rapid Results

A graphical, interactive application makes calibration a straightforward process capable of being performed by a technician or engineer without calibration expertise in 2 to 3 hours. At the conclusion of the calibration the user then saves the calibration data to a flash drive or a file.

## Additional Instruments Required

Given the wide assortment of NHR products that the CAL300 covers, some additional instruments are necessary for specific product families. To calibrate the 4700, 4760 and 4300 DC Loads, high & low-voltage DC sources are required. To calibrate the 9200/9300 Battery Test Systems, a NHR Resistive Load Box is required.

# CAL300 Calibrator Specifications

SPECIFICATIONS	
PARAMETER	RANGES
AC Current	10, 30, 300 A
DC Current	12, 30, 400 A
Low-Power Resistance	300 Ω, 3.3 k, 33 k
Low-Voltage Reference	+2.7 V and -2.7 V
Size	5 ¼" H x 17" W x 14 ¼" D
Weight	25lbs
Operating Temp.	23°C +/- 5°C. Warm up Time: 20 minutes
Electrical	90-132 or 180-264 VAC, switch selectable
Software	NHR CAL Software, SCPI over LAN, or VXI-11

REQUIRED CABLE SETS	
MODEL CALIBRATED	ORDER NUMBER
9410, 9420, 9430	CAL300CBL-94
9300	CAL300CBL-93
9200-4912 or -4924	CAL300CBL-4912
9200-4960	CAL300CBL-4960
4700, 4760	CAL300CBL-47

USER-SUPPLIED/SUPPLEMENTAL EQUIPMENT	
MODEL CALIBRATED	DESCRIPTION/SPECIFICATIONS
All Models	Agilent 3458A or equivalent
9300, 9200-4912, -4960	R440 LOAD (select 120 VAC or 240 VAC single phase voltage for the R440 Load)
4700	120 to 126 VDC output with a current limit < 8 A, 5 VDC output with a current limit ≥ 200 A
4760	600 to 630 VDC output with a current limit < 1.67 A, 12 VDC output with a current limit ≥ 50 A

ORDERING INFORMATION	
CALIBRATION TARGET	DIAGRAM
9400 Series	
9200/9300 Series	
4700/4760 Series	

