

Model 3210C - AC Current Calibrator

AC Source/Calibrator



1nA to 100A AC

Low Cost

Current Calibrator

Features

High Accuracy: 0.05% of Setting 1A to 100A, AC, rms 10Vac Source to drive the Transconductance Amp Model 3210C. 10Vac Driving Source (optional) EDC Model 4032

Options

Extended 1 Year Warranty: Part No. EW3210.

Applications

Testing Relay Coils and Watt Hour Meter Calibration
Direct Calibration of Watt Meters
Current-to-Voltage Transducers
AC Current Meters
Meter Shunts
DMMs

Related Models

[Model PCS-2B](#) - 10 Amp AC/DC Current Calibrator

The ratios of 10V to output is:

- 1:10 and 1:1.
- Recommended ac input references are:
EDC's Models 4601, 4032 and 4503. The Model 3210C may also be used with ac voltage sources (calibrators) of other manufacturers.

GENERAL DESCRIPTION

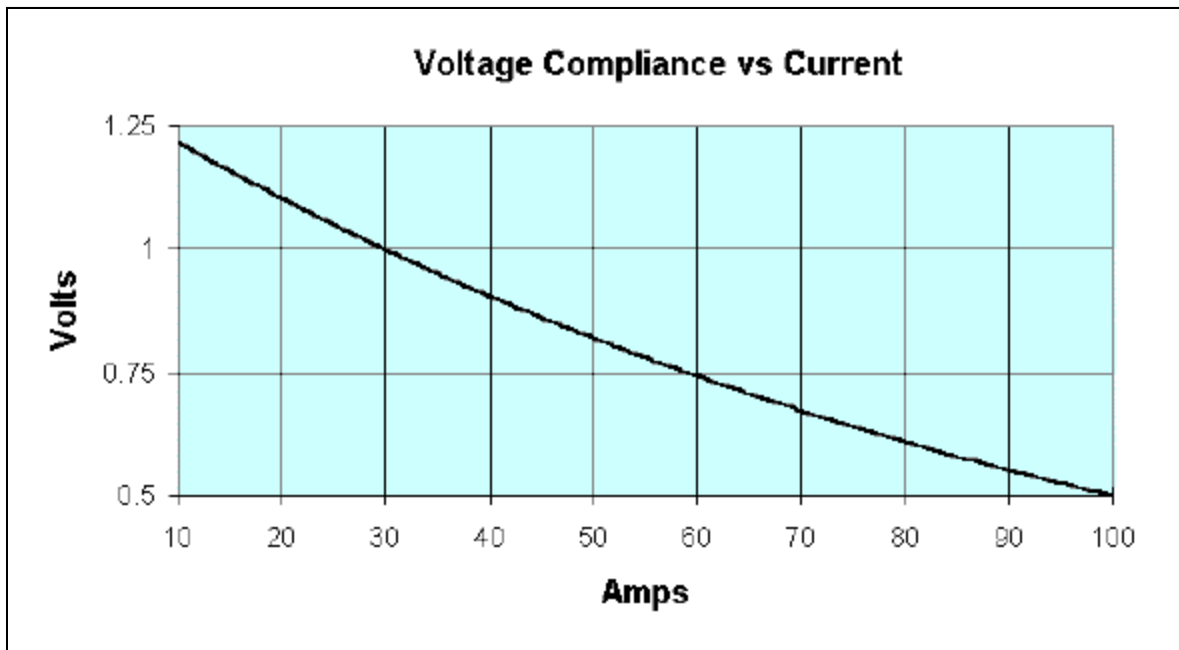
The Model 3210C is a 100A calibrator and is an accurate voltage to current amplifier or transconductance amplifier. The current output is directly proportional to the input voltages from a high accuracy ac voltage standard. The AC voltage bandwidth is 40Hz to 500Hz. The 3210C is calibrated with instruments and load resistors traceable to the National Institute of Standards & Technology.

SPECIFICATIONS

OUTPUT

The following specifications apply to the 3210C when used with EDC's Models 4032, 4601 or 4503.

Range, rms	100A ac	10A ac
Full scale	111.0A	11.10A
Minimum Setting	10A	1.0A
Resolution	100mA	10mA
Compliance Voltage	0.5V	5.0V



Accuracy: $\pm(0.05\%$ of setting + 0.05% of range).

The accuracy statement is based on the "Limit-of-Error" (or worst case) method. All other specifications which affect accuracy, i.e., line, load, temperature and drift changes, are included in the accuracy statement. Thus, all other peripheral specifications are listed as "non-additive".

Frequency: Operating bandwidth 50Hz to 400Hz.

Load Regulation: 0.02% of range from 10% to 90% compliance.

Line Regulation: $\pm 0.005\%$ for 10% line change.

Isolation: Floating output.

Distortion (50Hz to 400Hz): 0.25% + 0.1% of setting as measured at phase out terminals.

Ripple and Noise (non-additive): 0.05% of setting + 0.05% of range.

GENERAL SPECIFICATIONS

Power Requirements: 300 watts, 105Vac to 125Vac or 210Vac to 250Vac, 50Hz to 60Hz.

Temperature Coefficient: 50ppm/°C.

Operating Temperature: 10°C to 40°C.

Dimensions: 19" (48.2cm) wide, 7" (17.7cm) high, 13.75" (34.9cm) deep.

Weight: 40 lbs. (18.1kg) net; 45 lbs. (20.4kg) shipping.

Calibration Cycle: One full year.

Protection: In the event of an overload condition, the 3210C "trips" to standby state and is indicated on the front panel. Reset is manual.

Certification: Certificate of Compliance traceable to U.S. N.I.S.T.

Warranty: One full year, includes accuracy and stability. For a watt-hour meter calibration system see the Model 4700.

OPTIONS

Extended 1 Year Warranty: Part No. EW3210.

OPTIONAL ACCESSORIES

CAB-005: Cable, Two Conductor Shielded Balance Line

CAB-018: Cable, Multi-stacking Double Banana plug

CAB-023: Cable Set, Low Thermal EMF Retractable Banana

CAB-024: Cable Set, Low Thermal EMF Spade Lug

Specifications and prices are subject to change without notice.

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