Advanced Test Equipment Corp.
www.atecorp.com 800-404-ATEC (2832)

2555A Current Calibrator & AC/DC Transconductance Amplifier

Rock Solid Reliability & Unmatched Performance

The Model 2555A is the world's leading AC-DC current calibrator, earning its stripes through years of rock-solid reliability and unmatched performance. As a wide-range voltage-to-current converter with 100-amp max output, satisfied customers range from defense industrial manufacturers and branches of the government through the National Institute of Standards and Technology and a variety of other metrology labs. Our proprietary internal shunt design (with low TC 2ppm/°C) allows the unit to provide up to 400 watts (i.e. 7 volts at 55 amps) in constant current output with voltage compliance monitored via an internal voltmeter. For calibration of ammeters, current transformers, and shunts the unit is compatible with our C-1000 10-Turn Coil for simulation up to 1000 amps.

General Specifications

Input Impedance: 100kΩ
Compliance Voltage: 7VDC or 7Vac (RMS) to 60A
4VDC or 4Vac (RMS) to 100A
Input/Output Ratio: 2.00000V input provides full-scale output
(1.0000V input produces 100.00A output)
Stability: +0.0005% -15min. (±0.005% for 24Hr)
Load Regulation: Output current level changes less than ±0.002%
Maximum Input: 3VDC or 2Vac (RMS)
Maximum Isolation Voltage: ±200VDC or peak AC

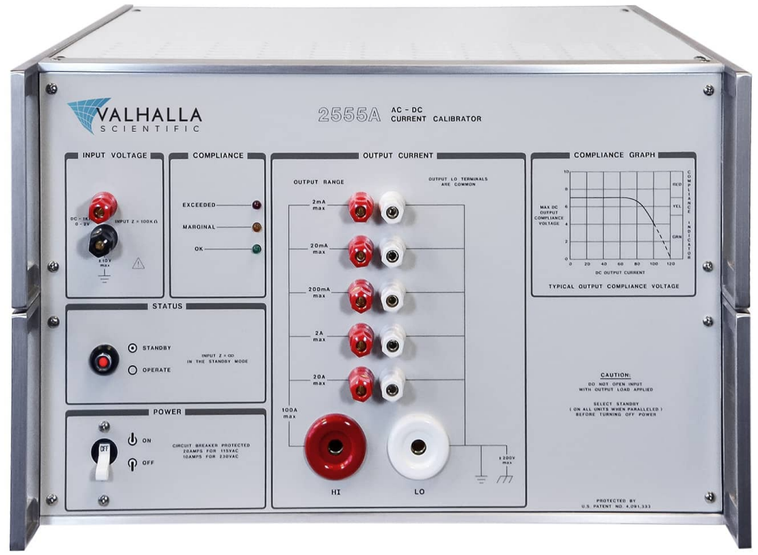
Response Time: 1msec to ±0.01% of final value following input amplitude or frequency change
Input CMR: 60dB @ DC linearity decreasing to 40dB @ max frequency

Power Requirements: 115VAC/230VAC ±10% at 50 to 60Hz

Temp. Coefficient: ±0.001% of output ±0.002% of rng/ double for AC
Operating Temp. Range: 0°C to 50°C
Storage Temp. Range: -30°C to 70°C
Humidity: 70% RH max @ 40°C (non-condensing)

Length: 27 cm / 10.5 in
Width: 44 cm / 17 in
Height: 59 cm / 23 in
Weight: 100 lbs / 45 kg

Range	DC Accuracy	AC Accuracy		
		100Hz	400Hz	1000Hz
100A	± 0.03% of range ± 0.03% of output	± 0.3% of range ± 0.1% of output	± 0.4% of range ± 0.2% of output	± 0.6% of range ± 0.3% of output
20A	± 0.015% of range ± 0.03% of output	± 0.15% of range ± 0.1% of output	± 0.2% of range ± 0.2% of output	± 0.3% of range ± 0.3% of output
2A	± 0.015% of range ± 0.03% of output	± 0.15% of range ± 0.1% of output	± 0.2% of range ± 0.2% of output	± 0.3% of range ± 0.3% of output
200mA	± 0.015% of range ± 0.03% of output	± 0.15% of range ± 0.1% of output	± 0.2% of range ± 0.2% of output	± 0.3% of range ± 0.3% of output
20mA	± 0.015% of range ± 0.03% of output	± 0.15% of range ± 0.1% of output	± 0.2% of range ± 0.2% of output	± 0.3% of range ± 0.3% of output
2mA	± 0.015% of range ± 0.03% of output	± 0.15% of range ± 0.1% of output	± 0.2% of range ± 0.2% of output	± 0.3% of range ± 0.3% of output



- Precision AC/DC Transconductance Amplifier
- Programmable AC/DC 100A Current Source
- Maximum Output Current 100A DC or RMS AC
- Highly Accurate
- Ultra-Low Noise
- Ultra-Stable
- Excellent Response Time
- High CMR
- Load Regulation: Output current Δ < ± .002%
- Dynamic Range: 0 to 100% of range up to maximum rated output (100A max.)