

Model 261
Picoampere Source

Revised 1/16/89

OUTPUT: 10^{-14} A (10^{-11} A full range) to 1.1×10^{-4} A, positive or negative, in eight decade ranges.

ACCURACY: Exclusive of input drop consideration:

RANGE SETTING		SPAN, AMPERE	ACCURACY WITH 10.00 SETTING (10V SOURCE VOLTAGE)	WORST-CASE WITH SETTING OTHER THAN 10.00*
10^{-7} to 10^{-5}	10^{-7} to 1.1×10^{-4}		$\pm 0.25\%$	$\pm 0.25\%$
10^{-8}	10^{-8} to 10^{-7}		$\pm 0.5\%$	$\pm 0.5\%$
10^{-9}	10^{-9} to 10^{-8}		$\pm 0.6\%$	$\pm 0.8\%$
10^{-10}	10^{-10} to 10^{-9}		$\pm 0.6\%$	$\pm 1.1\%$
10^{-11}	10^{-11} to 10^{-10}		$\pm 0.6\%$	$\pm 1.3\%$
10^{-12}	10^{-12} to 10^{-11}		$\pm 0.7\%$	$\pm 1.6\%$
10^{-12}	10^{-14} to 10^{-12}		—	$\pm 2.0\%$

*All accuracies are \pm the percentage given, $\pm 0.01 \times$ range switch setting.

LONG-TERM STABILITY: Will operate within stated specifications for three months after calibration. After three months add 0.15% per month to 10^{-8} through 10^{-12} A range setting accuracy specifications.

TEMPERATURE COEFFICIENT: $\pm 0.1\%/^{\circ}\text{C}$ from 15°C to 30°C on 10^{-7} to 10^{-5} A range settings. Approximately $0.15\%/^{\circ}\text{C}$ on 10^{-12} to 10^{-8} A range settings. Exact values for these ranges supplied with instrument.

WARM-UP TIME: 1 hour.

LINE REGULATION: 0.01% for 10% change in line voltage.

SOURCE VOLTAGE: 0 to 11V in 0.01V steps.

RESOLUTION: 3 significant figures from 10^{-12} A to 1.1×10^{-4} A.

RANGE RESISTORS: 10^5 to $10^{12}\Omega$ in decade steps; $\pm 5\%$.

RANGE RESISTOR ACCURACY: Value with power on, given on certificate.

$\pm 0.5\%$: 10^8 to $10^{12}\Omega$

$\pm 0.1\%$: 10^7 to $10^6\Omega$

$\pm 0.02\%$: $10^5\Omega$.

OUTPUT ISOLATION: Low to ground: $>10^9\Omega$ shunted by 0.001 μF .

CERTIFICATION: A Calibration Certificate is furnished including range resistor values, thermal coefficients, temperature and date of calibration. Certification traceable to the National Institute of Standards and Technology is also available.

POWER: 105-125V or 210-250V (switch selected), 50-60Hz, 6W.

DIMENSIONS, WEIGHT: 155mm high \times 225mm wide \times 300mm deep (6.25 in. \times 9 in. \times 12 in.).
 Net weight 4.1kg (9 lbs.).

ACCESSORY SUPPLIED: Model 2611 Test Cable.