

- * 3 ranges 10mV, 100mV & 1V
- * 0.05% accuracy
- * 1uV resolution

The 1007 can be used for potentiometric voltage measurement in addition to its operation as a millivolt source. The null zero and sensitivity are adjustable via front panel controls - maximum sensitivity enables null balance to resolve 1 microvolt.

The 1007 is particularly useful for calibration and simulation of thermocouples. Accurate voltages equivalent to the output from a thermocouple can easily be set on a 1007, enabling fast calibration of temperature measuring equipment. Alternatively, the 1007 can measure thermocouples output by operating as a potentiometer.



Source version (without null measuring facility) also available - Model 1006 (404S).

Specifications

Output Accuracy Output Resistance Max Output Current Output Stability	0 – 1V in 100uV steps, 0 – 100mV in 10uV steps, 0 – 10mV in 1uV steps. ± 0.05% of setting, ± 0.02% of range. ± 1uV. Less than 0.2 ohm on 1V and 100 mV ranges. 1 ohm on 10 mV range. 1V and 100mV ranges - 20mA. 10mV range - limited by 1 ohm output resistance. Less than 60 ppm/°C. Less than 100 ppm per 3 months (Non cumulative).
Output Polarity	Positive or negative switch selected. A centre off position is also provided.
Output Noise Level	Less than 30 ppm of range.
Reference Source	Precision zener diode selected for stability and low temperature coefficient.
Power Supply	Six AA size batteries. A battery condition indicator is provided. Rechargeable Nicad cells may be used and charged without removal from the case via the charging socket on the side of the instrument. Rechargeable batteries and mains charger are available as an optional extra.
Null Balance Display	The null display is on a front panel meter, zero and sensitivity controls are provided. Maximum sensitivity: ± 20 uV f.s.d. (1uV resolution); Minimum sensitivity: ± 200 mV f.s.d.; Input resistance: Greater than 1 Mohm.
Dimensions Optional Extras	195 x 75 x 85 mm; 1Kg Rechargeable Battery Packs - 6 Nicad Cells plus mains charger. Calibration Certificates - UKAS or National Standard (NPL) traceable.

Ordering Information

UKAS Calibration Certificate

Description D.C. Millivolt Potentiometer & Calibrator Model 1007 (404N) D.C. Millivolt Source Model 1006 (404S) Rechargeable Battery Pack - (6 Nicad cells + 240V Mains Charger) Rechargeable Battery Pack - (6 Nicad Cells + 110V Mains Charger)

Traceable Calibration Certificate, to National Standard (NPL)





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