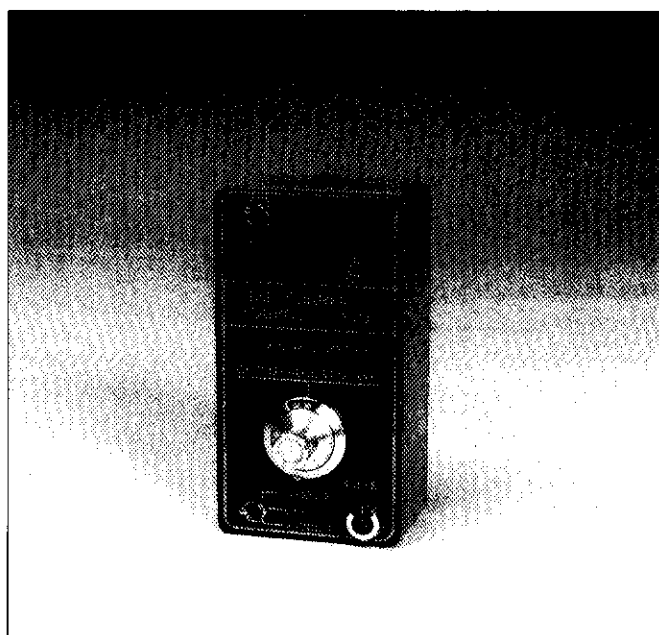




1033 Current Source and Load Calibrator

- 0 - 10 mA and 4 - 20 mA ranges
- 0.1% accuracy
- 25 V output compliance
- Load or source capability
- Low cost



Introduction

The 1033 is a compact, low cost portable current calibrator for general purpose signal injection or loading.

The 0-10 mA and 4-20 mA ranges coupled with the high voltage compliance of the 1033, makes it ideal for calibrating, simulating and checking a wide range of transducers and current transmitters.

The 1033 has either source or load modes of operation. The source mode will supply the value selected on dial, while the load mode will draw the set current from a circuit.

Output is scaled as a percentage, variable from 0 to 100 percent by a high quality, 10 turn dial.

A voltage limit LED provides an indication of insufficient drive voltage.

The 1033 is simple to operate and does not require any standardisation prior to use. The operator need only switch on, check the battery condition, select the correct range and dial up the required output value. The unit also comes complete with a carry case.



Specifications

Modes of Operation	Can source or load with the ranges - 0 - 10 mA (10 μ A resolution) 4 - 20 mA (10 μ A resolution)
Accuracy	$\pm 0.1\%$ of full scale both ranges
Linearity	$\pm 0.15\%$ both ranges
Temperature Coefficient	150 ppm per $^{\circ}$ C
Output Noise	30 ppm of full scale
Battery Condition	Continuously monitored by a battery level meter
Maximum Output Voltage	27 V maximum
Battery	3 off PP3 type batteries. Battery life is approximately 30 hours. An alternative power source would be 3 Ni-Cad PP3 batteries. These can be recharged, with a suitable charger, via the recharge socket.
Protection	The 1033 can withstand open circuits, short circuits and reverse polarity up to 50 V in the load mode.
Voltage Limit	An LED provides a warning of insufficient drive voltage.
Construction	The 1033 is constructed in a durable plastic case. Internally the circuit is built on a compact PCB, with a plug in reference module. A carry case is also supplied.

General Information

Dimensions	120 x 65 x 65 mm
Weight	330 g
Optional Extras	Rechargeable Battery Pack: 3 Ni-Cad Batteries and 240 V mains charger. Calibration Certificate: traceable to N.P.L.

Ordering Information

Description	Order Code
4/20 mA Current Source and Load Calibrator (with carry case)	1033
Rechargeable Battery Pack	1035
N.P.L. Traceable Calibration Test Certificate	1034
NAMAS Calibration Certificate	9107