

DATA SHEET

Uni-source

INTRODUCTION

SBK Instrumentation makes highly reliable test lab standard Universal Calibrator which operates on normally available AC Supply. This is use for Calibration and performance observation for many types of process Control Instruments and Testing Equipments. This is very useful tool for Electronic Instrument manufacturer and R & D Units for performance verification and Quality Assurance.



FEATURES

- Universal Source for mV, mA, Volts, Pt 100(Temp).
- Operation on 230 VAC \pm 10%
- Ideal for Production and R & D to observe long duration performance.
- Independent Calibration Facility.
- Typical Accuracy 0.1 %

Model - UNI-SOURCE

TECHNICAL SPECIFICATIONS

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|----------------------------|---|
| ● Power Supply | 230V AC \pm 10% |
| ● Indication | 4 ½ digit LED 0.5" height Red with over range and polarity indication |
| ● Accuracy | 0.1 % \pm 1 digit |
| ● Effect of ambient | Change 0.002% / Deg C ref 25 ° C |
| ● Operating Temp. | 0 to 50 ° C |
| ● Storage Temp. | 0 to 70 ° C |
| ● Humidity | Max 90 % Rh Non- Condensing |
| ● Size | 96 X 96 X 125 mm |
| ● Weight | 1.5 Kg approx. |
| ● Power Consumption | 5VA max |

ELECTRICAL SPECIFICATIONS

Funtion	Range	Resolution	Accuracy	Load
Source / Sink				
mV	199.99	10 μ volt	0.1% \pm 1digit	5 mA
mA	25.00	10 μ Amp	0.1% \pm 1 digit	500 Ω at 20 mA
T/C 'K'	0-1200°C	0.1°C	0.1% \pm 1digit for 0-400°C	0.25 Watt
V	0-10.00	10mV	0.1% \pm 1digit	
Pt 100	-50 to 400°C	Step	0.1%	

FUNCTIONAL DESCRIPTION

- Select** - Rotary selector switch to select required parameter mV/ mA/ Ohm/ Temp
- mV/mA Coarse** - Both the potentiometers are Multi-Turn Helipots & used to get exact value of mV/mA
- RTD Simulation** - Pt 100 simulation directly in terms of Temp. is achieved by Selector Switch 12 Steps.
- Terminals** - Are Provided for V (Source), mV (Source), mA (Source), Pt100 (RTD) Source

APPLICATIONS

- For calibration of proces control Instruments and Systems for various industries such as Cement, Chemicals, Dyestuff, Paint, drugs, Pharmaceuticals, Sugar, Paper, Glass, Food Industries, Steel, Synthetics, Auto, Air-conditioning & Refrigeration.
- As fault finding tool.
- Quality Assurance tool for ISO 9000, QS 2000 companies for control of Inspection & Measurement.

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- Due to continuous development specifications are subject to change without notice.

Total Instrumentation under Single Roof



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