

DATA SHEET

Table Top Calibrator

INTRODUCTION

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



Model - TT CAL 802

FEATURES

- Universal Source & Measure for mV, mA, Resistance, Pt100 (Temp) and DC Voltage Source
- Operation on 230V AC $\pm 10\%$
- Ideal for Production and R & D to observe long duration performance
- Independent Calibration facility
- Typical Accuracy 0.1%

TECHNICAL SPECIFICATIONS

- **Power Supply** : 230V AC $\pm 10\%$
- **Indication** : 4½ digit LED 0.5" height Red with over range & polarity indication
- **Accuracy** : 0.1% ± 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*192*125 mm (H*W*D)
- **Weight** : 1.5 Kg approx.
- **Power consumption** : 5V A max

ELECTRICAL SPECIFICATIONS

Function	Range	Resolution	Accuracy	Load
Source / Sink				
mV	199.99	10 Micro volt	0.1% ± 1 digit	5 mA
mA	25.00	10 Micro Amp	0.1% ± 1 digit	500 ohms
				at 20 mA
Ohms	1999.9	100 m ohm	0.1% ± 1 digit	
Temp	- 200 to 600 deg C	0.1 deg C	0.1% ± 1 digit	0.25 Watt
			for 0-400 deg C	
DC Voltage	3 - 27V DC	Blind	N.A.	25 mA

FUNCTIONAL DESCRIPTION

1. **Power ON** ▪ This switch powers the instrument when switched "ON"
2. **Select** ▪ Rotary selector switch to select required parameter mV / mA / Ohm / Temp
3. **Mode** ▪ Source (Generation) or Sink (Measurement) facility can be selected.
4. **mV/mA Coarse** ▪ Both the potentiometers are Multi-Turn Helipots & used to get exact value & fine adjustment of mV / mA
5. **RTD Simulation** ▪ Pt100 simulation directly in terms of Temp. is achieved by Multi turn Helipot. you can select the temp. for which Resistance out put is required. Read the value then Feed by using **READ / FEED SWITCH.**
6. **Ohm** ▪ To Measure Resistance in the range 0 1999.9 ohms (Calibrated for 0 500 ohm) in Source & Sink Mode
7. **Terminals** ▪ Are provided for mV (Source / Sink), mA Source, mA Sink & Pt100 (RTD) Source / Sink and DC Voltage.

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.

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

Total Instrumentation under Single Roof



SBK Instrumentation

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