

HT8000

VOLT / MILLIAMPERE CALIBRATOR

HT8000 Volt/mA calibrator is a source and measurement tool. This calibrator can be used in measurement or output 0 to 24 mA DC current loop, and 0 to 10 V DC voltage

FUNCTIONS

- Generation of output voltage signal with amplitude up to 10VDC
- Voltage measurement up to 10VDC
- Generation of output current signal with amplitude up to 24mA DC
- Current measurement up to 24mA DC
- Current measurement in percentage format (0-24mA)
- Loop current measurement of external transducers
- Simulating of external transducer
- Auto Power OFF

TECHNICAL SPECIFICATIONS

DC Voltage (measured)

Measuring range: 0.01 ÷ 10V

Accuracy: ±(0.02rdg +2dgt)

DC Voltage (generated)

Measuring range: 0.01 ÷ 10.V

Accuracy: ±(0.02rdg +2dgt)

DC Current (measured)

Measuring range: 0.001 ÷ 24.000mA -25.00 ÷ 125.00%

Accuracy: ±(0.015%rdg+4dgt)

DC Current (generated)

Measuring range: 0.001 ÷ 24.000mA -25.00 ÷ 125.00%

Accuracy: ±(0.015%rdg+4dgt)

Loop mode

Measuring range: 24V DC

GENERAL SPECIFICATIONS

Display: 5 LCD + symbol, decimal point

Power supply: 1x9V alkaline IEC6F22

Safety: IEC/EN61010-1

Insulation: double insulation

Pollution degree: 2

Dimensions (LxWxH): 190x89x42mm

Weight (batteries included): 350g

ACCESSORIES

Standard

KIT4000A Couple of test leads

Battery

User manual

Carrying case

HT8000
HV008000



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<http://www.radiotek.com.tw>



1. ELECTRICAL SPECIFICATIONS

Accuracy is calculated as \pm [% reading + (number of dgt) * resolution] at 18°C ÷ 28°C, <75%RH

DC VOLTAGE (Measured and Generated)

| Range | Resolution | Accuracy | Input impedance | Overload protection |
|-----------------|------------|-------------------------|----------------------|---------------------|
| 0.01 ÷ 100.00mV | 0.01mV | $\pm(0.02\%rdg + 2dgt)$ | 2M Ω , <100pF | 30VDC |
| 0.001 ÷ 10.000V | 0.001V | | | |

DC CURRENT (Measured and Generated)

| Range | Resolution | Accuracy | Percentage value | Overload protection |
|------------------|------------|------------------------|----------------------------|---------------------------|
| 0.001÷24.000mA | 0.001mA | $\pm(0.015\%rdg+4dgt)$ | 0% = 4mA | Fast fuse 125mA / 250V |
| -25.00 ÷ 125.00% | 0.01% | | 100% = 20mA 125% = 24mA | |

Source mode: 1000 Ω @ 20mA (battery voltage \geq 6.8V) ; 700 Ω @ 20mA (battery voltage within 5.8V and 6.8V)

Simulating mode: required loop voltage: 24V nominal, 30V maximum, 12V minimum

LOOP MODE

| Range | Resolution | Accuracy | Overload protection |
|--------|---------------|------------|---------------------|
| 24V DC | Non necessary | $\pm 10\%$ | 30VDC |

2. GENERAL SPECIFICATIONS

Display:

Characteristics: 5 LCD, sign and decimal point
 Overload indication: "O.L" at display
 Negative value indication: "-O.L" at display for the herewith values:
 <-2mV [100mV], <-0.2V [10V], <-1mA [24mA]

Fuses:

Type of fuse: FF 125mA/250V, 5x20mm, 0.03kA

Power supply:

Battery: 1x9V alkaline NEDA1604, 006P, IEC6F22
 Low battery indication: "⊖" symbol at display
 Battery life: approx 4 hours (type 1604), 2 hours (type 006P)

Mechanical characteristics:

Dimensions (L x W x H): 190 x 89 x 42mm
 Weight (included battery): 350g

Environmental conditions of use:

Reference temperature: 18°C ÷ 28°C
 Working temperature: -10 ÷ 50°C
 Working humidity: <75%HR
 Storage temperature: -40 ÷ 60°C
 Storage humidity: <75%%HR

Standard guidelines:

Safety: IEC/EN61010-1
 Insulation: double insulation
 Pollution degree: 2
 Max height of use: 3000m

This product conforms to the prescriptions of the European EMC directive 2004/108/EEC

