METRAVI

DIGITAL MILLI-VOLT / MILLI-AMP CALIBRATOR

CAL-400-3

FEATURES

- Portable instrument for calibrating process devices and measuring process signals.
- 2. Adjustable 0-24mA current source.
- 3. Adjustable -199.9mV to +199.9mV DCV source.
- 4. Current calibrator drives loads up to 500 ohms.
- The instrument powers or measures a two-wire current loop.
- 6. Four function provide the quality and accuracy of handheld calibrator:
 - a) Precision current source,
 - b) Measurement of a current signal,
 - c) Power and measurement of two wire loop,
 - d) Precision DC mV source.

GENERAL SPECIFICATIONS

Display LCD display, max display counts 1999.

Function 1) Current source

2) Current measurement

3) Power and current measurement

4) DC mV source

SamplingTime Approx. 0.4 second.

Over input Indication Indication of "1".

Operating environment 0° C to 50° C (32° to 122°). at < 70 %

relative humidity.

Power Supply DC9V,NEDA1604/IEC6F22 battery or

equivalent. Alkaline type or heavy duty type.

Power Consumption Current measurement: Approx. DC 12mA

Power and current measurement:

Approx. DC 33mA

Current source(under 10 mA signal out put):

Approx. DC 33mA

DC mV source(under 100mV signal out put):

Approx. DC 12mA

Dimension 150 (H) x 70 (W) x 40 (D) mm **Weight** Approx.: 232g (incluing battery.)

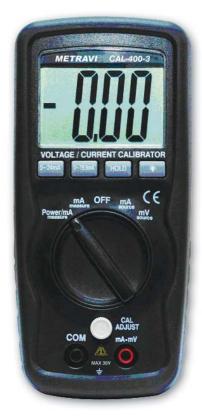
TECHNICAL SPECIFICATIONS

Electrical (23 ± 5)°C

Current source

| Current Source | | | | | |
|----------------|--------------------|----------------|--|--|--|
| Range | Display Resolution | Accuracy | | | |
| 0-19.99mA | 0.01mA | ± (0.25%FS+1d) | | | |
| 0-24mA | 0.1mA | ± (0.5%FS+1d) | | | |

- Output 0 to 24mA current for loads up to 500 ohms.
- Output >20mA current for loads up to 400 ohms.
- FS: full scale



Current measurement

| Range | Display Resolution | Accuracy |
|-----------|--------------------|---------------|
| 0-19.99mA | 0.01mA | ±(0.25%FS+1d) |
| 0-24mA | 0.1mA | ±(0.5%FS+1d) |

^{*}FS:full scale

Power and current measurement of two wire loop

| Range | Display Resolution | Accuracy |
|-----------|--------------------|---------------|
| 0-19.99mA | 0.01mA | ±(0.25%FS+1d) |
| 0-24mA | 0.1mA | ±(0.5%FS+1d) |

^{*}Provides power DC 12V ±2V to the loop and measures current.*FS: full scale

DC mV source

| Range | Display Resolution | Accuracy |
|-------------|--------------------|---------------|
| -199.9mV to | | |
| +199.9mV | 0.1mV | ±(0.25%FS+1d) |

^{*}Output measured load impedance should >1K ohms. *FS:full scale

Remark: The above specifications are tested under the environment RF Field Strength less than 3V/M & frequency less than the 30 MHz only.

THE QUALITY LEADER

^{*}Technical Specifications & Appearance are subject to change without prior notice