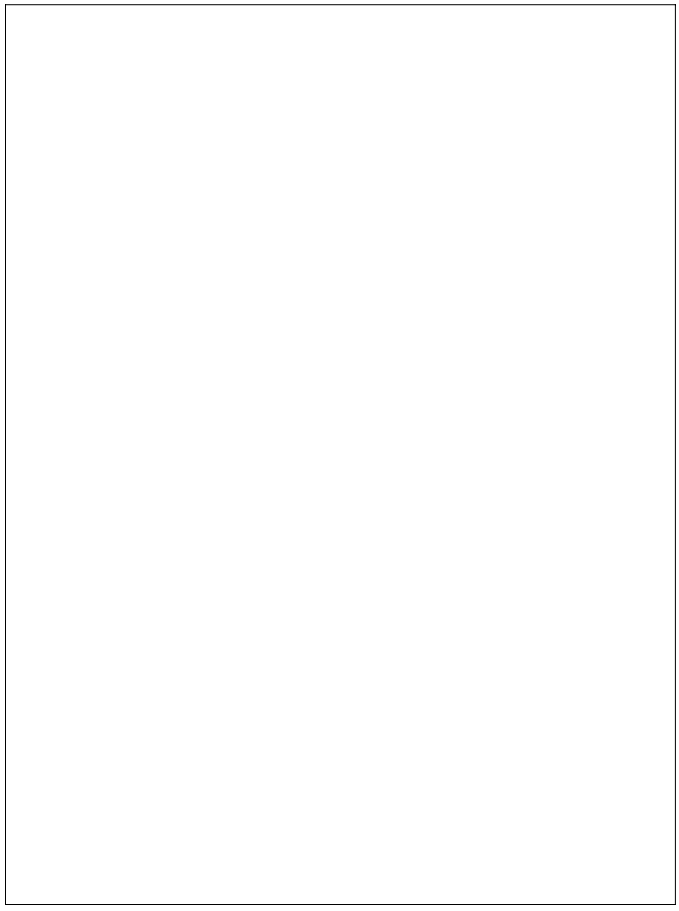
CURRENT CALIBRATOR

Model : CC-422



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1. FEATURES

* Portable instrument for calibrating process devices.
* Adjustable 0-24 mA current source.
* Current calibrator drives loads up to 500 ohms.
* Four function provide the quality and accuracy of handheld calibrator of precision current source.

2. SPECIFICATIONS

2-1 General Specifications

Display	13 mm (0.5") digit size. Super large LCD display.
Function Range & Resolution	*Current source :* 2 ranges : 0 - 19.99 mA x 0.01 mA 0 - 24 mA x 0.1 mA
Sampling Time	Approx. 0.4 second.
Over input Indication	Indication of " 1 ".
Operating Temperature	0 蚓 to 50 蚓 (32 蚌 to 122 蚌).
Operating Humidity	Less than 80% RH.
Power Supply	006P DC 9V, MN1604/PP3 battery or equivalent. *Alkaline or Heavy duty type.*
Power Consumption	*Current source (under 10 mA signal out put) :* Approx. DC 33 mA.
Dimension	185 x 78 x 38 mm (7.3 x 3.0 x 1.5 inch).
Weight	265 g/0.58 LB (including battery).
Accessories Included	Operational manual..... 1 PC. Cable with the alligator pairs (red & black), LN-TL421..... 1 PC.

2-2 Electrical Specifications (23 5 蚓)

Current source		
Range	Display Resolution	Accuracy
0 - 19.99 mA	0.01 mA	(0.25 % FS + 1 d)
0 - 24 mA	0.1 mA	(0.5 % FS + 1 d)
** Output 0-20 mA current for loads up to 500 ohms.* *Output > 20 mA current for loads up to 400 ohms.* ** FS : full scale*		

Remark :

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

3. FRONT PANEL DESCRIPTION

Fig. 1

3-1 Display
3-2 Power Switch

Symbol
1 = On 0 = Off

3-3 Range Switch
3-4 Calibration Adjust knob
3-5 Battery Compartment/Cover
3-6 Input Socket
3-7 Cable Plug
3-8 Alligator Clips

4. MEASURING PROCEDURE

1) Power on the meter by slide the " Power Switch " (3-2, Fig. 1) to " On " position.

Symbol
1 = On 0 = Off

2) Install the " Cable Plug " (3-7, Fig. 1) into the " Input Socket " (3-6, Fig. 1).
3) Slide the " Range Switch " (3-3, Fig. 1) to " 0 - 19.99 mA " position for getting the 0.01 mA display resolution (max. display is 19.99 mA). Slide the " Range Switch " (3-3, Fig. 1) to " 0 - 24.0 mA " position for getting the 0.1 mA display resolution.
4) Adjust the " Calibration Adjust knob " (3-4, Fig. 1) will generate the current output same as the display value.

Remark :
The " Red Alligator clip " (3-8, Fig. 1) is for the positive current output. The " Black Alligator clip " (3-8, Fig. 1) is the " ground " for current output.

5. REPLACEMENT OF BATTERY

1) When LCD display show the " BAT " marker, It is necessary to replace the battery. However, in-spec measurement may still be made for several hours after low battery indicator appears before the instrument become inaccurate.
2) Slide the " Battery Cover " (3-5, Fig. 1) away from the instrument by loss the screw and remove the battery.
3) Replace with 9V battery (Alkaline or heavy duty type) and reinstate the cover.
4) Make sure the battery cover is secured after change the battery