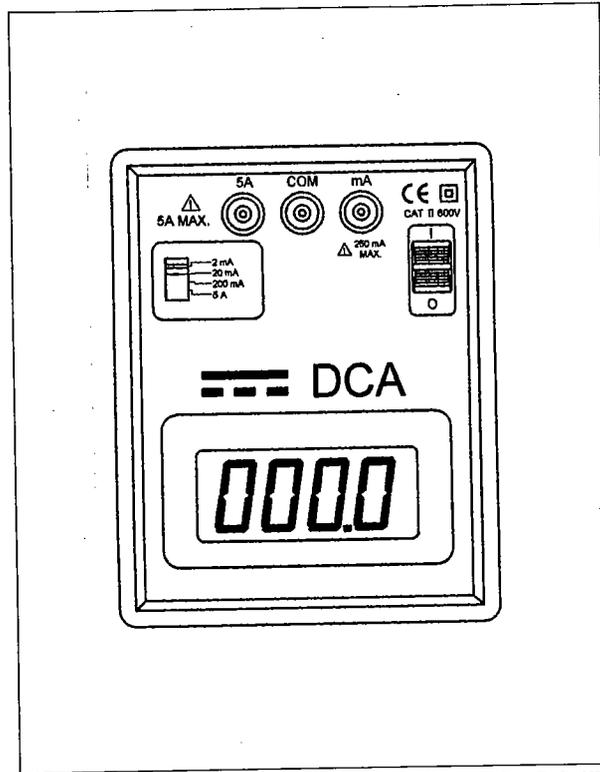


**TENMA®**

# DC CURRENT BENCH METER



MODEL #72-7277

## TABLE OF CONTENTS

1. FEATURES.....	1
2. SPECIFICATIONS.....	1
3. FRONT PANEL DESCRIPTION.....	3
3-1 Display.....	3
3-2 Power Switch.....	3
3-3 mA ( Red ) Input Terminals.....	3
3-4 COM ( Black ) Input Terminals.....	3
3-5 5A ( Green ) Input Terminals.....	3
3-6 Range Switch.....	3
3-7 Battery compartment/Cover.....	3
4. OPERATION.....	4
5. BATTERY REPLACEMENT.....	5
6. FUSE REPLACEMENT.....	6
7. WARRANTY.....	6

## 1. FEATURES

### \* Applications :

*Troubleshooting, maintenance and repair  
Education / Vocational training  
Laboratory research  
Prototype design and development*

- \* Meet IEC 1010 CAT II 600V.
- \* Automatic zero adjustment.
- \* Compact size, professional quality.
- \* Four ranges from 2 mA to 5 A.
- \* Large, easy to read LCD display.

## 2. SPECIFICATIONS

Display	18 mm ( 0.7" ) LCD.
Measurement	2 mA / 0.001 mA
Range/	20 mA / 0.01 mA
Resolution	200 mA / 0.1 mA
	5 A / 0.01 A
Accuracy	2 mA/20 mA/200 mA range : ± 1.0 % + 1 digit.
	5 A range : ± 1.5% + 2 digit.
Voltage Drop	2 mA/20 mA/200 mA range : 200 mV.
( full scale )	5 A range : 50 mV.

Over load Protection	2 mA/20 mA/200 mA range : 500 mA Fuse.
	5 A range : 5 A Fuse.
Sampling Rate	0.4 second.
Operating Temperature	32°F to 122°F.
Operating Humidity	Less than 80% RH.
Power Supply	Standard 9V battery.
Weight	0.68 lbs (including battery).
Dimensions	5.8" x 4.6" x 2.0".

### 3. FRONT PANEL DESCRIPTION

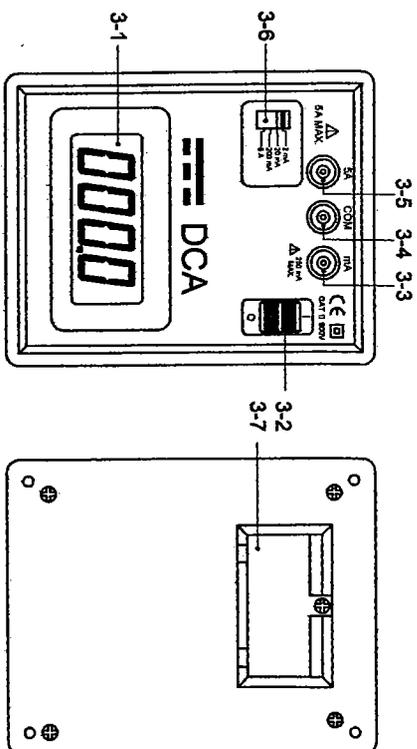


Fig. 1

- 3-1 Display
- 3-2 Power Switch
- 3-3 mA ( Red ) Input Terminals
- 3-4 COM ( Black ) Input Terminals
- 3-5 5A ( Green ) Input Terminals
- 3-6 Range Switch
- 3-7 Battery compartment/Cover

#### 4. OPERATION

- 1) For safety consideration, the power supply of the circuit to be measured should be switched off prior to connecting this unit.
- 2) Determine the highest anticipated current measurement and select the proper range.
- 3) Connect the test leads ( not supplied ) to the appropriate and select binding posts.

*\* For the current ranges below 200 mA, use the Red and Black input connections.*

*\* For the current ranges between 200 mA and 5 A, use the Green and Black input connections.*

- 4) Open the circuit in which current is to be measured. Securely connect the test leads in series with the load.
- 5) Slide the " ON/OFF " power switch to the " ON " position.
- 6) Switch on the power to the load to be measured position.
- 7) If displayed current is less than the next lower range, the lower range may be selected for greater accuracy.

#### **Warning !**

The 2 mA/20 mA/200 mA ranges, do not apply currents greater than 500 mA, 500 mA fuse will blow or at risk of damage to the unit and personal injury.

The 5 A ranges, do not apply currents greater than 5 A, 5 A fuse will blow or at risk of damage to the unit and personal injury.

#### 5. BATTERY REPLACEMENT

- 1) When the 9 V battery begins to become weak, the LCD display will show " BAT " in the left corner. It is recommended that battery be replaced at this time, however the unit will continue to display in -- spec readings for several hours at this point.
- 2) To replace the battery, remove the rear battery cover using a standard Philips screwdriver. If the unit is to be stored for a period of several months, without use, it is recommended that battery be removed.

#### 6. FUSE REPLACEMENT

- 1) For safety and meter protection reasons, if a current load of greater than 500 mA is applied to the Red and Black terminals, the internal 500 mA fuse will blow. Additionally, if a current load of greater than 5 A is applied to the Green and Black terminals, the internal 5A fuse will blow.
- 2) In this event replace these with only the same type of fast acting fuse, to ensure continued safety protection. To replace fuses, first make sure that the test leads are disconnected. Remove the screws holding the rear case.

## 7. WARRANTY

This item is warranted against manufacture defects for a period of one year, from the original date of purchase. Should this unit require repair, please refer to qualified service personnel, or contact the following

MCM an InOne Company  
650 Congress Park Drive  
Centerville Ohio, 45459

[www.mcminone.com](http://www.mcminone.com)  
1-800-543-4330