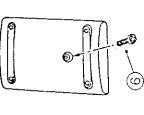
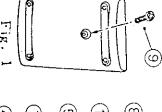
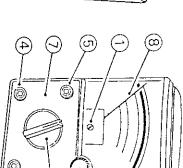


#### MT—832 MULTITESTER

INSTRUCTION MANUAL







- ① Indicator zero corrector
- ③ Measuring terminal + ② Range selector switch knob

(1) Rear case Rezr case bolt Indicator pointer

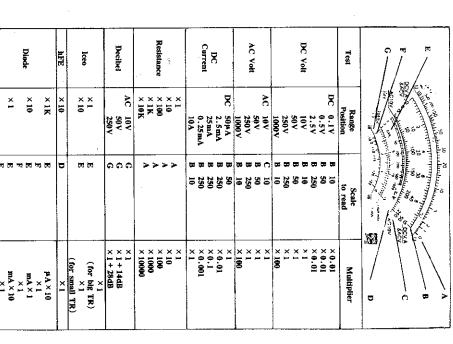
- Measuring terminal OOM
- © Measuring terminal + 10A DC MAX (common)
- © 0 Ωadjusting knob
- Panel

# MEASURING RANGES AND PERFORMANCES

With the use of op- tional	±3% of arc	Transistor hFE:0~1000 (in×10.range)	DC Amp factor (hFE)
Curren flowing across termina	±5% of arc	0-150µA at x 1K range 0-1.5mA at x 100 range 0-15mA at x 10 range 0-150mA at x 1 range	Leakage current (heo) (LI)
same ACV	± 4% fs	- 10d3 ~ + 22dB(AC 10V) ~ + 62dB OdB = 0.775V (Imwthrough 600Ω)	AF output (dB)
		•))))	Coatinuity
006P (9V) 6F22×1	, i	Maximum 2K 20K 200K 2M 20M	
internal batteries UM - (1.5V) R6×2	±3%	Range ×1×10×100×1K×10K Minimum 0-2 2 20 200 2 K Midscale 20 200 2 K 20 K 20 K	B
Voltage drop 250mV (100mV for 50µA	±3%fs	0 - 50 μA - 2.5 mA - 25 mA - 0.25 A - 10 A 50 μA at 0.1 VDC position	DCmA
imput impedence 9KΩ/V	± 4% fs	0 - 10V - 50V - 250V - 1000V $30Hz \sim 50Hz \pm 1dB$ $50Hz \sim 20KHz \pm 3\%$ 50V or less	ACV
imput impedence 20KΩ/V	± 3% fs except 25KV	O-0.1V-0.5-2.5-10V-50V -250V-1000V-(25KV) 25KV with optional probe	рсv
Remarks	Accuracy	Measurering range	Measure nænt

· Size and weight: 150 × 100 × 36mm, About 280g.
· Accessories: Test leads I pair. one copy instruction manual.
· Optional accessories: TR connector (HFE 6) HVprobe (HV 10)

REFERENCE TABLE TOR READING



3 |

#### OPERATION

## MEASURING RESISTANCE

- Plug the test leads into COM and + sockets.
- ②Place the range selector to a Prescribed range position.
- ③Short the test leads and turn  $0\Omega$  ADJ to set pointer to zero position.
- (4) Make sure that there is no voltage across the circuit to be tested.
- ©Connect the test leads to the tested resistor and read the scale in accordance with the reference table.

#### MEASURING DCV

- $\bigcirc$ Plug the red test lead into the + socket and the black one into the COM.
- ②Set the range selector to a selected DCV range position.
- ©Connect the red test lead to the positive polarity of the circuit tested and the black one to the negative.
- (4) Read the DCV A scale referring to the reference table.

### MEASURING ACV

- $\mathbb{O}$ Plug the red test lead into the + socket and the black into the COM socket.
- ②Set the range selector to a chosen ACV range position.
- ©Connect the test leads to the circuit being tested regardless of the polarities.
- (4) Read ACV scale with reference table

### MEASURING DCA

Place the red test lead into the + socket and the black into the - COM. Set the range selector at a selected DCA range position.

Connect the red test lead to the positive polarity of the circuit tested and ti

Connect the red test lead to the positive polarity of the circuit tested and the black into the negative.

Read the DCV A scale converted with the reference table

#### 1

# MEASURING ACV WITH OUTPUT TERMINAL

Plug the red test lead into the OUTPUT socket and the black one into - COM.

Set the range selector at the selected range position. Connect the test leads to the circuit to be tested and read the scale in the same manner as ACV test. Such a measurement is make to block the DC voltage which presents in the same circuit and must be cut out so that AC voltage can be read alone.

# CHECKING CONTINUITY WITH BUZZER

Rotate the range selector to·))) position, the meter will actuating as a continuity open – short circuit tester by means of sudible signals provided with self contained BUZZER.

When the test probes are connected across any conductors or circuits which has less than  $30\Omega$ , the BUZZER generates audible signal, so you can make CONTINUITY CHECK aithout observing meter scale.

### TRANSISTOR TEST

- 1. Iceo (leakage current )TEST
- ①Plug the test leads into + and COM sockets
- ②Set the test leads into + and COM sockets
- $\ensuremath{\mathfrak{D}}$  Adjust 0 0 ADJ to set the pointer to zero position of the  $\Omega$  scale
- (4) Connect the transistor with the tester:

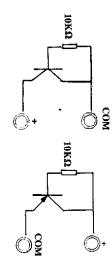
For NPN transistor, the "N" terminal of the tester is connected with the COLLECTOR(C) of the transistor and the "P" terminal with the EMITTER(E) of the transistor.

For PNP transistor, reverse the NPN transistor connection

5) Read Iceo range, If the pointer is within the LEAK zone or the pointer moves up near to the full scale, the transistor tested is no good. Otherwise, it is a good transistor.

2. hFE (DC amplification) TEST

- (1) Set the range selector to  $\times$  10.
- (2) Adjust  $\theta\Omega ADJ$  to adjust the pointer to zeto position.
- (3) hFE( DC amplification) test.



For NPN transistor For PNP transistor.

- (4) Read the hFE scale, The value of the reading is Ic/Ib. which is the (1) Set the range selector at selected range position –  $\times$  1K for 0 – 3. DIODE TEST DC amplication degree of the transistor tested.  $150\,\mu\text{A},\,\times\,100\,\text{for}\,\,0\,-\,1.\,5\,\text{mA},\,\,\,\,\times\,10\,\text{for}\,\,0\,-\,15\,\text{mA},\,\,\,\,\times\,1\,\,\text{for}\,\,0\,-\,$
- (2) Connect the diodle to the tester.

150mA test.

tive polarity of the diode. For  $I_{\mathtt{R}}(\text{reverse current})$  test, reverse the to the postive polarity of the diode and the "P" terminal to the nega-For I, (forward current ) test connect the "N" terminal of the tester connection.

- (3) Read  $I_r$  or  $I_k$  one the LI scale provided.
- (4) Read the linear (forward) voltage of the diode on the LV scale while testing I, or I,.

2.5 25 0 Q Q QR.o QR. 0.25A Q , , , , , , ,

Schematic diagram