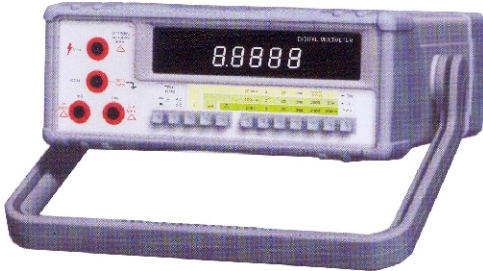


MEASURING METERS



4 1/2 Digital Multimeter (True RMS)

MDM 8145



Technical Specifications

- DC/AC Voltage, DC/AC Current, Resistors, Diode 6 Functions
- 0.5" LED Display, Resolution 10 V, 10nA, 10mohm
- All measure range has protected circuit
- 0.03% DCV Accuracy
- Automatic Zero Adjustment
- AC Current 20Amp, AC Voltage 1200V
- AC True RMS or AC+DC True RMS.

- DC Voltage: 200mV 2V 20V 200V 1200V, Accuracy: $\pm 0.03\%$ +4digit Impedance :10mohm

- AC Voltage: (True RMS) Input impedance : 10mohm

| Range | Accuracy |
|----------------------|----------------|
| 200mV, 2V, 20V, 200V | 1% \pm 15Dig |
| 10KHz-20KHz | 2% \pm 30Dig |
| 20K-50KHz | 5% \pm 3Dig |

- DC Current:

| Range | Accuracy |
|-------------------------|-----------------|
| 200 A, 2mA, 20mA, 200mA | 0.2% \pm 2Dig |
| 2000mA, 20A | 3% \pm 2Dig |

- AC Current:

| Range | Accuracy |
|-------------------------|------------------|
| 200 A, 2mA, 20mA, 200mA | 0.5% \pm 15Dig |
| 45Hz-2KHz | 1% \pm 15Dig |
| 2KHz-10KHz | 2% \pm 15Dig |
| 10K-20KHz | 2% \pm 15Dig |

- Resistance:

| Range | Accuracy |
|----------------------------------|------------------|
| 200ohm | 0.1% \pm 4Dig |
| 2kohm, 20kohm, 200kohm, 2000kohm | 0.1% \pm 2Dig |
| 20A | 0.25% \pm 2Dig |

- Diode Test: Range 2kohm is the best range for diode test. There is a diode mark on the front panel
- Display: 0.5 LED
- Line Power Supply: 230V \pm 10%, 50Hz
- Dimensions: 216(W)x83(H)x295(D)mm
- Weight: 2Kg Approx.

3 1/2 Digit Digital Multimeter (Manual Range)

VC 890D



Technical Specifications:

| Basic Function | Range | VC 890D (accuracy) | VC 97 (accuracy) | VC 203 (accuracy) |
|---------------------------|------------------------------|--------------------|-------------------|-------------------|
| DCV | 200mV/ 2V/ 20V/ 200V/ 1000V | \pm (0.5% + 3) | \pm (0.5% + 4) | \pm (0.5% + 4) |
| | 400mV/ 4V/ 40V/ 400V/ 1000V | | | |
| | 200mV/ 2V/ 20V/ 200V/ 600V | | | |
| ACV | 2V/ 20V/ 200V/ 750V | \pm (0.8% + 5) | \pm (0.8% + 6) | \pm (0.8% + 4) |
| | 400mV/ 4V/ 40V/ 400V/ 750V | | | |
| DCA | 200V/ 600V | \pm (1.5% + 3) | \pm (1% + 6) | \pm (1.2% + 10) |
| | 20 A/ 2mA/ 200mA/ 20A | | | |
| ACA | 400 A/4000 A/40mA/400mA/10A | \pm (1.5% + 3) | \pm (1.5% + 10) | \pm (1.5% + 3) |
| | 2mA/ 200mA/ 10A | | | |
| Resistance | 200 /2K /20K /200K /2M /20M | \pm (0.8% + 3) | \pm (0.8% + 4) | \pm (0.8% + 5) |
| | 400 /4K /40K /400K /4M /40M | | | |
| | 200 /2K /20K /200K /20M | | | |
| Capacitance | 20nF/ 200nF/ 20 F/ 200 F | \pm (2.5% + 20) | \pm (2.5% + 6) | \pm (0.5% + 4) |
| | 4nF/ 40nF/ 400nF/ 4 F/ 200 F | | | |
| Frequency | 100/ 1000/ 10K/ 1M/ 30MHz | \pm (0.8% + 4) | \pm (0.8% + 4) | |
| Temperature | -40°C -1000°C | \pm (0.8% + 4) | \pm (0.8% + 4) | |
| Special Functions: | | | | |
| Diode Test | | ✓ | ✓ | ✓ |
| Triode Test | | ✓ | ✓ | |
| Continuity | | ✓ | ✓ | ✓ |
| Low Battery | | ✓ | ✓ | ✓ |
| Data Hold | | ✓ | ✓ | |
| Auto Power OFF | | ✓ | ✓ | |
| Function Protection | | ✓ | ✓ | |
| Sell recover protection | | ✓ | | |
| Shock Protection | | ✓ | ✓ | ✓ |
| Relative Value Measuring | | | ✓ | |
| Frequency/ Duty Measuring | | | ✓ | |
| Input Impedance | | 10M | 10M | 10M |
| Sampling Rate | | 3s | 3s | 3s |
| AC Frequency Response | | 40~400Hz | 40~400Hz | 40~400Hz |
| Operation Way | | Manual Range | Auto Range | Manual Range |
| Max. Displaying | | 1999 | 3999 | 1999 |
| LCD | | 55 x 43 mm | 65 x 35 mm | 57 x 33 mm |
| Power | | 9V | 3V | 9V |
| Weight (approx.) | | 320gm | 320gm | 180gm |
| Dimension | | 168 x 87 x 47mm | 190x87x47mm | 145x80x28mm |

3 3/4 Digit Digital Multimeter

with Frequency Counter of 30 Mhz
(Auto Range)

VC 97



Mars reserves the right to alter Design/Specification of any instruments without prior notice or information for betterment of the product

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