


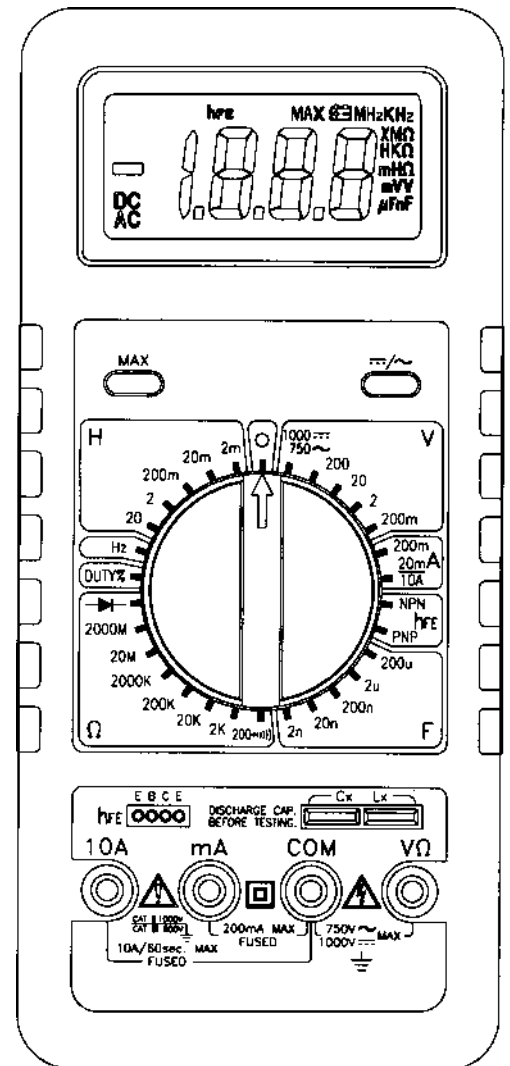
# RSR DIGITAL MULTIMETER

## + CAPACITANCE + INDUCTANCE METER

Part No. 01DM1007

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- Display:** 3½ digit liquid crystal display (LCD) with a maximum reading of 1999.
- Polarity:** Automatic, positive implied, negative polarity indication.
- Overrange:** (OL) or (-OL) is displayed
- Zero:** Automatic
- Low Battery Indication:** The “” is displayed when the battery voltage drops below the operating level.
- Measurement Rate:** 2.5 times per second, nominal
- Operating Environment:** 0°C to 40°C at < 70% relative humidity
- Storage Temperature:** -20°C to 60°C to 80% R.H. with battery removed from meter
- Accuracy:** Stated accuracy at 23°C ± 5°C, < 75% relative humidity
- Safety:** According to EN61010-1 protection class II overvoltage category (CAT II 1000V, CAT III 600V) pollution degree 2
- Power:** Single standard 9-volt battery, NEDA 1604, JIS 006P, IEC 6F22
- Dimensions:** 200mm (H) x 90mm (W) x 40mm (D)
- Weight:** Approx. 14 oz. (400g) including battery
- Accessories:** One pair test leads, one spare fuse installed, 9V battery (installed) and operating instructions.
- Fuse Replacement:** # 2000AGX1/2  
# 2000CRM10



**RSR  DIGITAL MULTIMETER****+ CAPACITANCE + INDUCTANCE METER***Part No. 01DM1007 (con't)***DC VOLTS****Ranges:** 200mV, 2V, 20V, 200V, 1000V**Resolution:** 100 $\mu$ V**Accuracy:**  $\pm$  (0.5% rdg + 1dgt)**Input Impedance:** 10M $\Omega$ **Overload Protection:**

500VDC or AC rms on 200mV range

1000VDC or 750VAC rms on all other ranges

**AC VOLTS (50Hz–500Hz)****Ranges:** 200mV, 2V, 20V, 200V, 750V**Resolution:** 100 $\mu$ V**Accuracy:** $\pm$  (1.0 rdg + 4dgt) on 200mV to 200V ranges $\pm$  (2.0 rdg + 4dgt) on 750V range**Input Impedance:** 10M $\Omega$ **Overload Protection:**

500VDC or AC rms on 200mV range

1000VDC or 750VAC rms on all other ranges

**DC CURRENT****Ranges:** 20mA, 200mA, 10A**Accuracy:**  $\pm$  (1.0% rdg + 1dgt) on mA range $\pm$  (3.0 rdg + 1dgt) on 10A range**Input Protection:** 0.5A / 250V fast blow fuse

10A / 600V fast blow ceramic fuse

**AC CURRENT (50Hz–500Hz)****Ranges:** 20mA, 200mA, 10A**Accuracy:**  $\pm$  (1.5% rdg + 4dgt) on mA range $\pm$  (3.5% rdg + 4dgt) on 10A range**Input Protection:**

0.5A / 250V fast blow fuse

10A / 600V fast blow ceramic fuse

**RESISTANCE****Ranges:** 200 $\Omega$ , 2K $\Omega$ , 20K $\Omega$ , 200K $\Omega$ , 2000K $\Omega$ , 20M $\Omega$ , 2000M $\Omega$ **Accuracy:**  $\pm$  (0.8% rdg + 4dgt) on 200 $\Omega$  range $\pm$  (0.8 rdg + 2dgt) on 2K $\Omega$  to 2000K ranges $\pm$  (3.0% rdg + 4dgt) on 20M $\Omega$  range $\pm$  (5.0% rdg – 10dgt) + 10dgt] on 2000M $\Omega$  range**Open Circuit Volts:** 0.3Vdc (3.0Vdc on 200 $\Omega$  and 2000M $\Omega$  ranges)**Overload Protection:** 500VDC or AC rms**CONTINUITY****Audible Indication:** Less than 40 $\Omega$   $\pm$  20 $\Omega$ **Overload Protection:** 500VDC or AC rms**DIODE TEST****Test Current:** 1.0mA  $\pm$  0.6mA**Accuracy:**  $\pm$  (3.0% rdg + 3dgt)**Open Circuit Volts:** 3.0Vdc typical**Overload Protection:** 500VDC or AC rms**CAPACITANCE****Ranges:** 2nF, 20nF, 200nF, 2 $\mu$ F, 200 $\mu$ F**Accuracy:**  $\pm$  (5.0% rdg + 10dgt) on all ranges $\pm$  (8.0% rdg + 10dgt) above 100 $\mu$ F**Test Frequency:** 2nF, 20nF ranges 1KHz200nF, 2 $\mu$ F ranges 270 Hz200 $\mu$ F range 27Hz**INDUCTANCE****Ranges:** 2mH, 20mH, 200mH, 2H, 20H**Accuracy:**  $\pm$  (5.0% rdg + 20dgt) on 2mH $\pm$  (5.0% rdg + 10dgt) on other ranges**Test Frequency:** 2mH, 20mH ranges 1KHz

200mH, 2H ranges 270Hz

20H range 27Hz

**Test Conditions:** Quality factor >5 in 270Hz**FREQUENCY (Autoranging)****Ranges:** 2KHz, 20KHz, 200KHz, 2000KHz,

15MHz

**Accuracy:**  $\pm$  (0.1% rdg + 1dgt)**Sensitivity:** 1.0V rms min**Overload Protection:** 500VDC or AC rms**Effect Reading:** 20-1999**DUTY CYCLE****Ranges:** 10% to 90.0%**Resolution:** 0.1%**Accuracy:**  $\pm$  (1.0% rdg + 10dgt)**Pulse Width:** > 10 Hz, <20KHz TTL signal**Overload Protection:** 500VDC or AC rms**TRANSISTOR h<sub>FE</sub>:****Ranges:** 0–1000**Base Current:** 10 $\mu$ Adc approx. (V<sub>ce</sub> = 3.0Vdc)