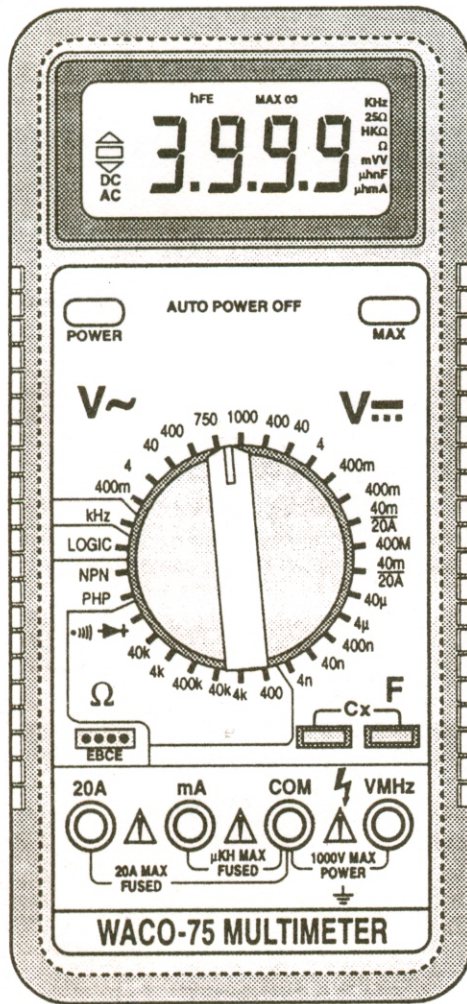




# THE NEW 3<sup>3</sup>/<sub>4</sub> DIGIT, DIGITAL MULTIMETER MODEL : WACO-75



## SPECIFICATIONS :

- **Display:** 3<sup>3</sup>/<sub>4</sub> digits, 17mm large LCD maximum reading 3999 with function and units sign annunciators.
- **Polarity:** Automatic, (-) negative polarity indication.
- **Overrange:** (OL) is displayed.
- **Low battery indication:** The battery is displayed when voltage drops below the operating level.
- **Measurement rate:** 2.5 times per second, nominal.
- **Operating Environment:** 0°C to 50°C at < 70% R.H.
- **Storage Temperature:** -20°C to 60°C, 0 to 80% R.H. with battery removed from meter.
- **Power:** Single 9V battery, NEDA, 1604, JIS 006P, IEC 6F22.
- **Auto-power off:** 50 minutes after function or range changes.
- **Battery life:** 300 hours typical with carbon-zinc.
- **Dimensions:** 7.5"H x 3.4"W x 1.5"D
- **Weight:** Approx. 12.9 oz. (370g) including battery.

## DC VOLTS

**Ranges:** 400mV, 4V, 40V, 400V, 1000V  
**Resolution:** 100 $\mu$ V  
**Accuracy:**  $\pm(0.5\% \text{ rdg} + 1 \text{ dgts})$   
**Input impedance:** 20M $\Omega$   
**Overload protection:** 1000VDC or 750VAC rms

## AC VOLTS (50Hz - 500 Hz)

**Ranges:** 400mV, 4V, 40V, 400V, 750V  
**Resolution:** 100 $\mu$ V

**Accuracy:**  $\pm(1.2\% \text{ rdg} + 3 \text{ dgts})$  on 400mV to 400V ranges  
 $\pm(2.0\% \text{ rdg} + 3 \text{ dgts})$  on 750V range

**Input impedance:** 20M $\Omega$

**Overload protection:** 1000VDC or 750VAC rms

## DC CURRENT

**Ranges:** 40mA, 4000mA, 20A

**Accuracy:**  $\pm(1.0\% \text{ rdg} + 1 \text{ dgts})$  on 40mA to 400mA ranges  
 $\pm(3.0\% \text{ rdg} + 3 \text{ dgts})$  on 20A range

**Overload Protection:** 0.5A/600V fast blow fuse on mA input  
 20A/600V high energy fast blow fuse on 20A input

## AC CURRENT (50Hz - 500Hz)

**Ranges:** 40mA, 400mA, 20A

**Accuracy:**  $\pm(1.5\% \text{ rdg} + 4 \text{ dgts})$  on 40mA to 400mA ranges  
 $\pm(3.5\% \text{ rdg} + 4 \text{ dgts})$  on 20A range

**Overload protection:** 0.5A/600V fast blow fuse on mA input  
 20A/600V high energy fast blow fuse on 20A input

## RESISTANCE

**Ranges:** 400 $\Omega$ , 4k $\Omega$ , 40k $\Omega$ , 400k $\Omega$ , 4M $\Omega$ , 40M $\Omega$

**Accuracy:**  $\pm(1.0\% \text{ rdg} + 4 \text{ dgts})$  on 400 $\Omega$  ranges  
 $\pm(0.75\% \text{ rdg} + 4 \text{ dgts})$  on 4k $\Omega$  to 4M $\Omega$  ranges  
 $\pm(2.0\% \text{ rdg} + 5 \text{ dgts})$  on 40M $\Omega$  ranges

**Overload protection:** 500VDC or peak AC

## DIODE TEST

**Accuracy:**  $\pm(1.0\% \text{ rdg} + 1 \text{ dgt})$

**Open circuit volts:** 3.45VDC max.

**Overload protection:** 500VDC or peak AC

## CONTINUITY

**Audible indication:** less than 150 $\Omega$

**Overload protection:** 500VDC or peak AC

## FREQUENCY (Autoranging)

**Ranges:** 4KHz, 40KHz, 400KHz, 4000KHz

**Accuracy:**  $\pm(0.1\% \text{ rdg} + 4 \text{ dgts})$  on all ranges

**Sensitivity:** 200mV RMS min. on 10Hz to 1MHz  
 500mV RMS min. on 1MHz to 4MHz

**Overload protection:** 500VDC or peak AC

## LOGIC TEST

**Threshold:** Logic Hi (2.8  $\pm$  0.8V), Logic Lo (0.8  $\pm$  0.5V)

**Indication:** 40 msec beep at logic low

**Overload Protection:** 500VDC or peak AC

## CAPACITANCE

**Ranges:** 4nF, 40nF, 400nF, 4 $\mu$ F, 40 $\mu$ F

**Accuracy:**  $\pm(3.0\% \text{ rdg} + 10 \text{ dgts})$  on all ranges

**Test Frequency:** 400Hz

## TRANSISTOR hFE

**Ranges:** 0 - 1000

**Base current:** 10 $\mu$ Adc approx. (Vce=3.45Vdc max.)

*Specifications subject to change without notice*