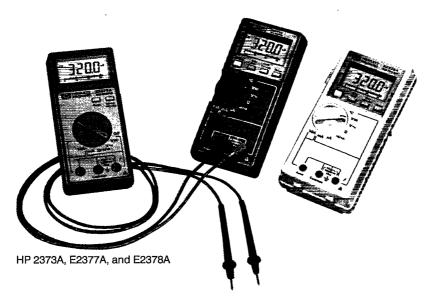
DIGITAL MULTIMETERS

3½-Digit Handheld Multimeters

HP E2373A, E2377A, E2378A

- · Choice of general-purpose or rugged model
- 0.3% or 0.7% basic DCV accuracy

- · 3-year standard warranty on all models
- · 3200-count analog/digital display



HP E2300 Series Handheld Multimeters

The HP E2300 Series of handheld multimeters is ideal for portable basic measurements. Standard features on all three models include:

- · dc and ac volts, dc and ac current, resistance, audible continuity, and diode test

 Maximum 1 kV dc, 750 V rms, 10 A
- · Choice of auto-ranging or manual range hold
- Large 3200-count digitial display (samples approx. 2 times/s) with 32-segment analog bar (samples approx 12 times/s)

 • Display annunciators for all functions (except temperature on
- E2377A and E2378A), also for low-battery indication, overload, range hold, and data hold (E2377A and E2378A)
- · Built-in tilt stand and three terminal input jacks
- · One-year calibration cycle
- · Three-year warranty

Three Models to Choose From

The basic HP E2373A multimeter is ideal for troubleshooting. It offers all the standard features above, along with a basic Vdc accuracy of 0.7 percent. Audible continuity and a choice of auto or manual

ranging make this low-cost meter an excellent choice.

For more exacting tasks, the HP E2377A has a basic Vdc accuracy of 0.3 percent and a 1-kHz bandwidth. It also adds data hold and temperature functions to the solid feature set of the HP E2373A. The temperature function is built in and can be used with any K-type thermocouple probe.

For outside use and rougher applications, the HP E2378A has the same functions and accuracy as the HP E2377A, and is encased in a yellow splash-proof case.

Refer to the following chart to determine which of the three models best suits your needs.

	HP E2373A	HP E2377A	HP E2378A
Basic de accuracy	0.7%	0.3%	0.3%
Basic ac accuracy	1.2%	1%	1%
Maximum ac bandwidth	500 Hz	1 kHz	1 kHz
Audible continuity and diode test	Yes	Yes	Yes
Data hold function	No	Yes	Yes
Temperature function	No	Yes	Yes
Input protection up to 300 mA range	0.5 A/250 V	0.5 A/250 V	0.5 A/250 V
10 A range	unfused	15 A/250 V	15 A/250 V
Power supply (low mercury, alkaline batteries)	AA (1.5 V) × 2	AAA (1.5 V) × 2	AAA (1.5 V) × 2
Battery life (minimum)	2500 h	1000 h	1000 h

Specifications

 23° C $\pm 5^{\circ}$ C, < 80% RH

Function	Range	Resolution	Accuracy¹ ± (% rdg + number of digits	
			HP E2373A	HP E2377A HP E2378A
dc voltage	300 mV 3 V 30 V 300 V 1000 V	100 μV 1 mV 10 mV 100 mV 1 V	0.5% + 2 0.5% + 1 0.5% + 1 0.7% + 1 0.7% + 1	0.3% + 2 0.3% + 2 0.4% + 1 0.4% + 1
ac voltage	3 V 30 V 300 V 750 V	1 mV 10 mV 100 mV 1 V	1.2% + 4 1.2% + 4 1.2% + 4 1.2% + 4	1.0% + 3 ² 1.0% + 3 ² 1.0% + 3 ² 1.0% + 3 ²
dc current	300 μA 3 mA 30 mA 300 mA 10 A	100 nA 1 μA 10 μA 100 μA 100 mA	1.0% + 2 1.5% + 2 1.5% + 2	1.0% + 2 1.0% + 2 1.0% + 2 1.5% + 2 1.5% + 2
ac current	300 μA 3 mA 30 mA 300 mA 10 A	100 nA 1 μA 10 μA 100 μA 10 mA	2.0% + 5 2.0% + 5 2.0% + 5 2.0% + 5	2.0% + 5 2.0% + 5 2.0% + 5 2.0% + 5 2.0% + 5
Resistance	300 Ω 3 kΩ 30 kΩ 300 kΩ 3 MΩ 30 MΩ	100 mΩ 1 Ω 10 Ω 100 Ω 1 kΩ 10 kΩ	0.7% + 2 0.7% + 1 0.7% + 1 0.7% + 1 1.5% + 1 3.0% + 1	0.7% + 2 0.7% + 1 0.7% + 1 0.7% + 1 0.7% + 1 2.0% + 1

Input Resistance (dc voltage): $300 \text{ mV} \text{ range} > 1000 \text{ M}\Omega$

3 V range 11 MΩ

30 to 1 kV ranges 10 M Ω

Maximum Input: ±1000 Vdc or 750 Vac rms

Continuity Check: 300Ω range; approx 20Ω threshold Temperature Test: -20° C to 700° C with 1° resolution (not E2373A)

Diode Test: 0.6 mA test current, $\pm (3\% + 2 \text{ mV})$ accuracy

¹ One digit corresponds to the range's resolution. ² 40 to 500 Hz range.