

# MULTIMETERS



## MODEL 1009

DC V AC V Ω Hz DUTY DATA HOLD REL AUTO POWER OFF

- Display : 4000 counts.
- Auto range and manual range selector provided. (with range hold feature)
- Resistance range provides audible continuity test.
- Automatically turns power off in about 30 minutes to conserve battery life.
- Direct current measurement up to 10A AC and DC.



## KEW 1011/1012

1012 TRUE RMS DC V AC V Ω Hz DUTY DATA HOLD REL AUTO POWER OFF 1011 1011 DATA HOLD MAX/MIN

- 6040 counts with Bar Graph display
- MIN/MAX function enables to record min & max value
- REL(relative value) function
- Temperature measurement, selectable for °C and °F (KEW 1011)
- True RMS can measure and indicate distorted waveforms (KEW 1012)
- DUTY function



photo : 1012

|                      | 1009  | 1011  | 1012                               |
|----------------------|---|---|------------------------------------|
| DC V                 | 400mV/4/40/400/600V ±0.6%rdg±4dgt*  | 600.0mV/6.000/60.00/600.0/600V ±0.5%±2dgt*  |                                    |
| AC V                 | 400mV/4/40/400/600V ±1.3%rdg±4dgt*  | 6.000/60.00/600.0/600V ±1.0%±3dgt*  | 6.000/60.00/600.0/600V ±1.2%±3dgt* |
| DC A                 | 400/4000μA/40/400mA/4/10A ±1.0%rdg±4dgt*  | 600/6000μA/60/600mA/6/10A ±1.2%±3dgt*   |                                    |
| AC A                 | 400/4000μA/40/400mA/4/10A ±2.0%rdg±4dgt*  | 600/6000μA/60/600mA/6/10A ±1.5%±4dgt*   |                                    |
| Ω                    | 400Ω/4/40/400kΩ/4/40MΩ ±1.0%rdg±4dgt  | 600Ω/6/60/600kΩ/6/60MΩ ±1.0%±2dgt*  |                                    |
| Continuity buzzer    | 400Ω(Buzzer sounds below 100Ω)  | 0 - 600Ω(Buzzer sounds below 100Ω)  |                                    |
| Diode test           | 1.5V Release Voltage : Approx. 0.4mA test current   | 2.8V release voltage : Approx. 0.4mA test current   |                                    |
| Capacitance test     | 40/400nF/4/40/100μF   | 40/400nF/4/40/400μF   |                                    |
| Frequency            | 5.12/51.2/512Hz/5.12/51.2/512kHz/5.12/10MHz   | 10/100/1000Hz/10/100/1000kHz/10MHz  |                                    |
| DUTY                 | 0.1 - 99.9%(Pulse width/Pulse period) ±2.5%±5dgt  | 0.1 - 99.9%(Pulse width/Pulse period) ±2.0%±2dgt( - 10kHz)  |                                    |
| Temperature          | —   | -50 - 300°C(-58 - 572°F)(with the use of Temperature probe 8216)  | —                                  |
| Applicable Standards | IEC 61010-1 CAT III 300V, IEC 61326-1   | IEC 61010-1 CAT III 300V, CAT II 600V, IEC 61326  |                                    |
| Power source         | R6(AA)(1.5V) × 2 (Auto power off : approx. 30 minutes)  | R6(AA)(1.5V) × 2 (Auto power off : approx. 15 minutes)  |                                    |
| Dimensions           | 161(L) × 82(W) × 50(D)mm  | 161(L) × 82(W) × 50(D)mm  |                                    |
| Weight               | 280g approx.  | 280g approx.  |                                    |
| Accessories          | 7066A(Test leads), 8919(Ceramic fuse[10A/600V]) × 1, 8923(Ceramic fuse [0.5A/600V]) × 1, R6(AA) × 2, Instruction manual | 7066A(Test leads), 8216(K-type temperature probe)(1011 Only), 8918(Ceramic fuse[0.8A/600V]) × 1 built-in, 8919(Ceramic fuse[10A/600V]) × 1 built-in, R6(AA) × 2, Instruction manual |                                    |
| Optional             | 7234(Alligator clip), 9095(Carrying case)   |   |                                    |

\*Basic accuracy : For the detailed accuracy, please see our product catalog on our website.



## KEW 1109S

DC V AC V DC A Ω dB

- Mirrored scale for easy and accurate reading.
- Output terminal to cut off DC component when measuring AC voltage.
- Safety designed input terminals and test leads.

|              | 1109S  |
|--------------|--|
| DC V         | 0.1/0.5/2.5/10/50/250/1000V(20kΩ/V) ±3% of FS  |
| AC V         | 10/50/250/1000V(9kΩ/V) ±3% of FS   |
| DC A         | 50μA/2.5/25/250mA ±3% of FS  |
| Ω            | 2/20kΩ/2/20MΩ ±3% of scale length  |
| Decibel      | -10 - +62dB  |
| hFE          | 0 - 1000(Ω × 10) ±3% of scale length   |
| Power source | R6(AA)(1.5V) × 2, 6F22(9V) × 1   |
| Dimensions   | 150(L) × 100(W) × 47(D)mm  |
| Weight       | 330g approx.   |
| Accessories  | 7066A(Test leads), 8901(Fuse[0.5A/250V]) × 2, R6(AA) × 2, 6F22 × 1, Instruction manual |
| Optional     | 9168(Carrying case)  |



## MODEL 1110

DC V AC V DC A Ω °C

- High sensitivity DC20kΩ/V.
- 1m drop-proof heavy duty design.
- Can measure line voltage up to AC 600V. (Voltage to ground MAX AC 300V) (Protected by 600V ceramic fuse against accidental overload)
- Continuity buzzer, battery check, LED check function.
- Skeleton type robust and clear case with carrying handle furnished as standard accessory.

|                      | 1110  |
|----------------------|---|
| DC V                 | 0.3V(16.7kΩ/V) ±3% of FS 3/12/30/120/300/600V(20kΩ/V) ±3% of FS   |
| AC V                 | 12V(9kΩ/V) ±4% of FS 30/120/300/600V(9kΩ/V) ±3% of FS   |
| DC A                 | 60μA/30/300mA ±3% of FS   |
| Ω                    | 3/30/300kΩ ±3% of scale length  |
| Continuity buzzer    | Buzzer sounds below 100Ω  |
| Battery Test         | 1.5V(0.7 - 2V) ±3% of FS (10Ω load)   |
| Temperature          | Note: The MODEL1110 includes a temperature measurement scale, but it is not available for new customers due to the discontinuation of the Temperature Probe 7060. |
| LED                  | 10mA approx. at 0Ω (at 3V of battery voltage)   |
| Applicable Standards | IEC 61010-1 CAT III 300V /CAT II 600V, IEC 61326-1  |
| Power source         | R6(AA)(1.5V) × 2  |
| Dimensions           | 140(L) × 94(W) × 39(D)mm  |
| Weight               | 280g approx.  |
| Accessories          | 7066A(Test leads), 8923(Fuse[500mA/600V]) × 2, R6(AA) × 2, 9103(Carrying case), Instruction manual  |

