



ISO 9001:2000, BS EN 9001
APPROVED BY BVQI

KEW 1012 True RMS type

KEW 1011 Averaging value type
Temperature measurement function
(with K-type temperature probe)

Wide range for various test fields!

High-powered Digital Multi Meter Series

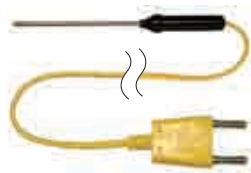
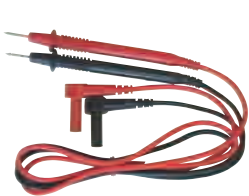
- 6040 counts with Bar Graph display
- MIN/MAX function enables to record min & max value
- REL(relative value) function to indicate the measurement variation
Saving the initial value at the start of measurement as a reference value(= zero)
The difference between the later measured values and the reference value is indicated on the display
- Temperature measurement, selectable for °C and °F (KEW 1011)
supplied with K-type temperature probe (8216): -50~300 °C (-58~572 °F)
- True RMS can measure and indicate distorted waveforms (KEW 1012)
- DUTY function
(It is possible to measure Pulse width / Pulse period)
- Data Hold function, Auto Power Off function
- Continuity with buzzer and Diode Check function
- Capacity measurement of capacitors
- Current ranges are protected by fuses (600V ceramic)
- Designed to meet international safety standards IEC61010-1 CAT.III 300V / CAT.II 600V

| | KEW 1012 | KEW 1011 | MODEL 1009 |
|---------------------|--|---|--|
| Specifications |  NEW   |  NEW   |   |
| DC V | 600.0mV/6.000/60.00/600.0/600V (Input Impedance :10MΩ, 100MΩ only 600mV) ±0.5%±3dgt(600.0mV/6.000/60.00/600.0V) ±0.8%±3dgt(600V) | | 400mV/4/40/400/600V (Input Impedance :10MΩ) ±0.6%rdg±4dgt (400mV/4/40/400V) ±1.0%rdg±4dgt (600V) |
| AC V | 6.000/60.00/600.0/600V (Input Impedance :10MΩ) ±1.5%±5dgt(6.000V) ±1.2%±3dgt(60.00/600.0V) ±1.5%±5dgt(600V) | 6.000/60.00/600.0/600V (Input Impedance :10MΩ) ±1.0%±3dgt(6.000/60.00/600.0V) ±1.5%±3dgt(600V) | 400mV/4/40/400/600V (Input Impedance :10MΩ) ±1.6%rdg±4dgt (20-400mV) ±1.3%rdg±4dgt (4/40V) ±1.6%rdg±4dgt (400V/600V) |
| DC A | 600/6000μA/60/600mA/6/10A ±1.2%±3dgt(600/6000μA/60/600mA) ±2.0%±5dgt(6/10A) | | 400/4000μA/40/400mA/4/10A ±2.0%rdg±4dgt (400/4000μA) ±1.0%rdg±4dgt (40/400mA) ±1.6%rdg±4dgt (4A/10A) |
| AC A | 600/6000μA/60/600mA/6/10A ±1.5%±4dgt(600/6000μA/60/600mA) ±2.2%±5dgt(6/10A) | | 400/4000μA/40/400mA/4/10A ±2.6%rdg±4dgt (400/4000μA) ±2.0%rdg±4dgt (40/400mA/4/10A) |
| Ω | 600Ω/6/60/600kΩ/6/60MΩ ±1.0%±2dgt(600Ω/6/60/600kΩ/6MΩ) ±2.0%±3dgt(60MΩ) | | 400Ω/4/40/400kΩ/4/40MΩ ±1.0%rdg±4dgt (400Ω/4/40/400kΩ/4MΩ) ±2.0%rdg±4dgt (40MΩ) |
| Continuity buzzer | 0-600Ω(Buzzer sounds below 100Ω) | | 0-400Ω (Buzzer sounds below 70Ω) |
| Diode Check | 2.8V Release Voltage : Approx. 0.4mA Test Current | | 1.5V Release Voltage : Approx. 0.4mA Test Current |
| Capacitance | 40/400nF/4/40/400/4000μF | | 40/400nF/4/40/100μF |
| Frequency | 10/100/1000Hz/10/100/1000kHz/10MHz | | 5.12/51.2/512Hz/5.12/51.2/512kHz/5.12/10MHz |
| DUTY | 0.1-99.9% (Pulse width/Pulse period) ±2.0%±2dgt (~10kHz) | | 0.1-99.9% (Pulse width/Pulse period) ±2.5%±5dgt |
| Temperature | — | | — |
| Display | 6040 Counts | | 3999 Counts |
| Withstand Voltage | AC3700V / 1 min. | | |
| Applicable Standard | IEC61010-1 CAT.Ⅲ 300V Pollution degree 2 /CAT.Ⅱ 600V Pollution degree 2 IEC 61010-031 IEC 61326 | | IEC61010-1 CAT.Ⅲ 300V IEC61010-2-031 IEC61326 |
| Power Source | R6P (1.5V)×2 (Auto-power-OFF within 15 minutes) | | R6P (1.5V) ×2 |
| Dimensions | 161 (L) ×82 (W) ×50 (D) mm | | 155 (L) ×75 (W) ×33 (D) mm |
| Weight | Approx. 280g | | Approx. 260g |
| Accessories | KTL04 (Test Lead) 0.8A/600V (Ceramic Fuse) ×1 built-in 10A/600V (Ceramic Fuse) ×1 built-in R6P×2 Instruction Manual | KTL04 (Test Lead) 8216 (K-type Temperature probe) 0.8A/600V (Ceramic Fuse) ×1 built-in 10A/600V (Ceramic Fuse) ×1 built-in R6P×2 Instruction Manual | KTL04 (Test Lead) 8924 (0.5A/250V Ceramic Fuse) ×1 built-in 8925 (10A/250V Ceramic Fuse) ×1 built-in R6P×2 Instruction Manual |

Accessories

Test Lead MODEL KTL04 Temperature Probe MODEL 8216

Range : -50~300°C(-58~572°F)



Note : KEW1011 can measure max. 700°C
In order to measure over 300°C, please use a K-type temperature probe available in the market.

True RMS (Root Mean Square) Value Measurement

Due to the use of thyristors, inverters and other energy-saving controllers in recent electric wiring, current waveforms often include harmonic components and are distorted compared to sinusoidal waves (50/60Hz).

Compared to the true RMS value tester, 30~40% measurement values taken by the averaging value type may generate errors in some cases. (When the sinusoidal waves(50/60Hz) is not affected by the distortion, both averaging value type and true RMS value type will show almost the same value.)

Kyoritsu's True RMS type tester is able to measure the true RMS of the distorted waveforms since waveforms are being internally calculated continuously.

! Safety Warnings : Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.



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