Quality and reliability is our tradition

KYORITSU®

DIGITAL MULTI METER SERIES
KEW 1011 / 1012

KEW 1011 Averaging value type

Temperature measurement function
(with K-type temperature probe)

KEW 1012 True RMS type

Wide range for various test fields!

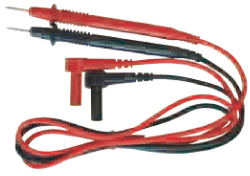
High-powered Digital Multi Meter Series

- 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	 TRUE RMS CE	 ℃ CE	 CE
DC V	600.0mV/6.000/60.00/600.0/600V (Input Impedance :10MΩ, 100MΩ only 600mV) ±0.5%±2dgt(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	—	-50~300°C(-58~572°F) (with the use of Temperature probe 8216)	—
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

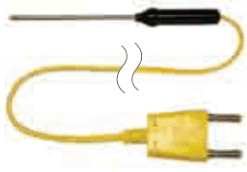
Accessories

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 vale 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.