



Quality and reliability is our tradition

KYORITSU

DIGITAL MULTIMETERS KEW 1061/1062

High Performance Handheld DMMs

KEW 1062

Top of the range Professional model

KEW 1061

Professional model

High Accuracy, High Performance and Reliable Measurements

- 0.02% basic DC accuracy
- Large display with 50,000 counts
- Dual display for double indication for AC and DC, V and Hz, etc.
- True-RMS Measurements AC and AC+DC
- Wide AC Frequency bandwidth from 10Hz to 100kHz*
- True-RMS or MEAN value detection mode can be selected*
- Fast Peak Hold response time of 250µs*
- Low-pass filter for motor drive measurements*
- Low Power Ω for resistance measurements on sensible electronic circuits by a low and safe test current*
- User calibration function

* Only for KEW1062

Safety design for industrial use

- Complies with IEC 61010-1 CAT.III 1000V, CAT. IV 600V
- Terminal shutter to prevent incorrect test leads' insertion in current terminals
- Very wide operating temperature range from -20 to +55°C

Reliable support for data management

- Large data logging memory
KEW 1062: 10,000 data
KEW 1061: 1,000 data
- Download data and Live Monitoring on a PC via the USB interface
(Option for USB Communication set)



PHOTO:1062



KYORITSU ELECTRICAL INSTRUMENTS WORKS,LTD.

<http://www.kew-ltd.co.jp>

● KEW 1061/1062 General Specifications

Measurement function: DC Voltage, AC Voltage, DC Current, AC Current, Resistance, Frequency, Temperature, Capacitor, Duty cycle ratio, Decibel (dBV, dBm), Continuity Check, Diode Test, LowPower-Ω
 LowPower-Ω: Measures resistance under low measurement current. (KEW1062 only)
 Effective value (root mean square value) detection (RMS) and mean value detection (MEAN) can be switched during AC voltage or AC current measurement (KEW1062 only)
 Other functions : Data Hold (D+H), Auto Hold (A+H), Peak Hold* (P+H), Range Hold (R+H), Maximum value (MAX), Minimum value (MIN), Average value (AVG), Zero Adjustment (Capacitor, Resistance), Relative values, Save to Memory, LCD backlight.
 Display : 5-digit (LCD) 7segment
 Main-display 50000 counts
 Sub-display 50000 counts
 Bar graph indicator 51-segment
 Polarity Indicator "-" Appears automatically when the polarity is negative
 Measurement cycle: 6 times per second (except frequency measurement: one time per second, Resistance measurement : four times per second, capacitor measurement (50mF): max. 0.03 time per second)
 Bar graph display 15 times per second

Operating temperature and humidity ranges: -20 to 55°C, 80%RH or less (no condensation), 70%RH or less at 40 to 55°C.
 Storage temperature and humidity ranges: -40 to 70°C, 70%RH or less (no condensation)
 Temperature coefficient: (Accuracy at 23±5°C×0.05)/°C or less (Temperature ranges: -20 to 18°C and 28 to 55°C)
 Power supply: AA-size (R6) 1.5V batteries: 4
 Battery life: Approx. 120 hours (Operating hours of alkaline batteries when in DC voltage-mode.)
 Note: The battery life varies depending on the operating conditions.
 Withstand voltage: 6.88kVrms AC for five seconds (across input terminals and casing)
 Dimensions: Approx. 192(L)×90(W)×49(D)mm
 Weight: Approx. 560g (including batteries)
 Applicable standards: IEC 61010-1 CAT.IV 600V, CAT.III 1000V Pollution degree 2, IEC 61010-031 IEC 61326-1 [EMC]
 Accessories included: Batteries: 4, Test leads: 1set (7220), Fuse (included): 440mA/1000V (8926), 10A/1000V (8927), Instruction manual, Calibration Certificate

● Specification

Test conditions: Temperature and humidity: 23±5°C at 80%RH or less Accuracy: ±(% of reading + digits)
 DC Voltage Measurement (≡V)

Range	Resolution	Accuracy 1061,1062	Input Impedance	Overload Protection
50mV	0.001mV	0.05+10	Approx. 100MΩ	1000V DC 1000V rms AC
500mV	0.01mV	0.02+2		
2400mV	0.1mV	0.025+5		
5V	0.0001V	0.025+5	10MΩ	
50V	0.001V	0.03+2		
500V	0.01V	0.03+2		
1000V	0.1V			

NMR: 80dB or more 50/60Hz ±0.1% (70dB or more 50/60Hz ±0.1% when 50mV Range)
 CMRR: 100dB or more 50/60Hz (Rs=1kΩ) Response time: 0.3 sec. max.

AC Voltage Measurement [RMS] (≡V) AC Coupling, Rms-value detection, Crest factor <1.5 at 1000V range; Crest factor: <3 at other range

Range	Resolution	Upper:1061; Lower:1062; -:Not Specified					Input Impedance	Overload Protection
		10 to 20Hz	20Hz to 1kHz	1k to 10kHz	10k to 20kHz	20k to 50kHz		
50mV	0.001mV	2+80 ^{※2}	0.4+40 ^{※2}	5+40 ^{※2}	5.5+40 ^{※2}	15+40 ^{※2}	11MΩ<50pF	1000V rms AC 1000V DC
500mV	0.01mV	1.5+3 0 ^{※1}	0.7+30 ^{※1}	2+50 ^{※2}	1+40 ^{※2}	-	10MΩ<50pF	
5V	0.0001V	1+30 ^{※1}	0.4+30 ^{※1}	2+70 ^{※2}	5+200 ^{※2}	-		
50V	0.001V	※2	※2	3+30 ^{※2}	-	-		
500V	0.01V	※2	※2	3+30 ^{※2}	-	-		
1000V	0.1V	※2	※2	-	-	-		

※1: At 5 to 100% of range
 ※2: At 10 to 100% of range CMRR: 80dB or more DC to 60Hz (Rs=1kΩ) Response time: 1 sec. max.

AC Voltage Measurement [MEAN] (≡V) AC Coupling, MEAN value detection, RMS value calibration (sine wave) ※1062 only

Range	Resolution	Accuracy			Input Impedance	Overload Protection
		10 to 20Hz	20 to 500Hz	500 to 1kHz		
50mV	0.001mV	4+80 ^{※2}	1.5+30 ^{※2}	5+30 ^{※2}	11MΩ<50pF	1000V rms AC 1000V DC
500mV	0.01mV	2+30 ^{※1}	1+30 ^{※1}	3+30 ^{※1}		
5V	0.0001V	※2	※2	※2		
50V	0.001V	※2	※2	※2		
500V	0.01V	※2	※2	※2		
1000V	0.1V	※2	※2	※2		

※1: At 5 to 100% of range
 ※2: At 10 to 100% of range CMRR: 80dB or more DC to 60Hz (Rs=1kΩ) Response time: 1 sec. max.

DCV+ACV (≡+≡) AC Coupling, Rms-value detection, Crest factor <1.5 at 1000V range; Crest factor: <3 at other range

Range	Resolution	Upper:1061; Lower:1062; -:Not Specified						Input Impedance	Overload Protection
		DC,10 to 20Hz	DC,20Hz to 1kHz	DC,1k to 10kHz	DC,10k to 20kHz	DC,20k to 50kHz	DC,50k to 100kHz		
5V	0.0001V	1.5+10 ^{※1}	1+10 ^{※1}	2+10 ^{※2}	2+10 ^{※2}	5+20 ^{※2}	11MΩ<50pF	1000V rms AC 1000V DC	
50V	0.001V	1.5+10 ^{※1}	0.5+10 ^{※1}	1+10 ^{※1}	2+10 ^{※2}	5+20 ^{※2}	10MΩ<50pF		
500V	0.01V	※2	※2	※2	※2	※2			
1000V	0.1V	※2	※2	※2	※2	※2			
		※2	※2	※2	※2	※2			
		※2	※2	※2	※2	※2			

※1: At 5 to 100% of range
 ※2: At 10 to 100% of range CMRR: 80dB or more DC to 60Hz (Rs=1kΩ) Response time: 1 sec. max.

Resistance Measurement (Ω)

Range	Resolution	Accuracy		Maximum Measuring Current	Open Circuit Voltage	Overload Protection
		1061	1062			
500Ω	0.01Ω	0.1+2 ^{※1}	0.05+2 ^{※1}	<1mA	<2.5V	1000V rms
5kΩ	0.0001kΩ					
50kΩ	0.001kΩ					
500kΩ	0.01kΩ					
5MΩ	0.0001MΩ					
50MΩ	0.001MΩ	0.5+2	1+2	<0.13μA		

※1: Accuracy is specified after zero adjustment (resistance). Response time: 1 sec. max. at 500Ω to 500kΩ, 5 sec. max. at 5MΩ to 50MΩ

LowPower-Ω (LP-Ω) ※1062 only

Range	Resolution	Accuracy	Maximum Measuring Current	Open Circuit Voltage	Overload Protection
5kΩ	0.001kΩ	0.2+3	<10μA	<0.7V	1000V rms
50kΩ	0.01kΩ				
500kΩ	0.1kΩ				
5MΩ	0.001MΩ				
50MΩ	0.001MΩ				

Continuity Check (⊞)

Range	Resolution	Range of Operation	1061,1062	Measuring Current	Open Circuit Voltage	Overload Protection
500Ω	0.1Ω	Buzzer sounds at lower than 100±50Ω		Approx. 0.5mA	<5V	1000V rms

● Accessories, Options

Description	MODEL	Contents
Test leads	7220	1000V CAT.III, 600V CAT.IV 1set
Fuse	8926	440mA/1000V (1pce)
	8927	10A/1000V (1pce)
USB Communication set	8241	USB adaptor+USB cable+DMM Software
DMM Printer full set	8249	8243+8246+8248
Printer Communication set	8243	Printer Adapter+RS232 cable
Printer	8246	Printer(paper width 112mm)+paperx1 roll
AC adapter for printer [EU]	8248	AC230V±10%

DC Current Measurement (≡) [A]

Range	Resolution	Accuracy 1061,1062	Voltage Drop	Overload Protection
500μA	0.01μA	0.2+5	<0.11mV/μA	440mA Protected by a 440mA/1000V fuse.
5000μA	0.1μA			
50mA	0.001mA			
500mA ^{※3}	0.01mA		<4mV/mA	
5A	0.0001A		0.6+10	<0.1V/A
10A	0.001A	0.6+5		

※3: Maximum measurement current : 440mA at 500mA range Response time: 0.3 sec. max.

AC Current Measurement [RMS] (≡~A)

Rms-value detection, Crest factor: <3

Range	Resolution	Accuracy			Voltage Drop	Overload Protection
		10 to 20Hz	20Hz to 1kHz	1k to 5kHz		
500μA	0.01μA	1.5+20	1+20	1+30	<0.11mV/μA	440mA Protected by a 440mA/1000V fuse.
5000μA	0.1μA					
50mA	0.001mA					
500mA ^{※3}	0.01mA					
5A	0.0001A				1.5+20	1+20
10A	0.001A	1.5+20	1+20			

Accuracy At 5 to 100% of range, At 10 to 100% of range for 10A Range

※3: Maximum measurement current : 440mA at 500mA range Response time: 1 sec. max.

AC Current Measurement [MEAN] (≡~A) ※1062 only

MEAN value detection, RMS value calibration (sine wave)

Range	Resolution	Accuracy			Voltage Drop	Overload Protection
		10 to 20Hz	20 to 500Hz	500Hz to 1kHz		
500μA	0.01μA	2+20	1.5+20	2+30	<0.11mV/μA	440mA Protected by a 440mA/1000V fuse.
5000μA	0.1μA					
50mA	0.001mA					
500mA ^{※3}	0.01mA					
5A	0.0001A				3+20	2+20
10A	0.001A					

Accuracy At 5 to 100% of range, At 10 to 100% of range for 10A Range

※3: Maximum measurement current : 440mA at 500mA range Response time: 1 sec. max.

DCA+ACA (≡+≡)

Maximum Reading 50000, Crest factor: <3

Range	Resolution	Accuracy			Voltage Drop	Overload Protection
		DC,10 to 20Hz	DC,20Hz to 1kHz	DC,1k to 5kHz		
500μA	0.01μA	2+10	1.5+10	1+10	<0.11mV/μA	440mA Protected by a 440mA/1000V fuse.
5000μA	0.1μA					
50mA	0.001mA					
500mA ^{※3}	0.01mA					
5A	0.0001A				2+10	1.5+10
10A	0.001A					

Accuracy At 5 to 100% of range, At 10 to 100% of range for 10A Range

※3: Maximum measurement current : 440mA at 500mA range Response time: 1 sec. max.

Diode Test (⊞)

Range	Resolution	Accuracy 1061,1062	Measuring Current (I _{WH} /I _{HL})	Open Circuit Voltage	Overload Protection
2.4V	0.0001V	1+2	Approx. 0.5mA	<5V	1000V rms

Temperature Measurement

Range	Resolution	Accuracy	Overload Protection
-200 to 1372°C	0.1°C	1+1.5°C	1000V rms
-328 to 2501.6°F	0.1°F	1+2.0°F	

Use optional Temperature Probe: Thermocouple Type K

Frequency Measurement [Hz] AC Coupling, Maximum Reading 9999

Range [AU/Hz]	Resolution	Accuracy 1061,1062
2,000 to 9,999Hz	0.001Hz	0.02+1 ^{※1}
9,000 to 99,99Hz	0.01Hz	
90,00 to 999,9Hz	0.1Hz	
0,900 to 9,999kHz	0.001kHz	
9,000 to 99,99kHz	0.01kHz	
900 to 9,999MHz	0.01MHz	

※1: At 10 to 100% of input voltage or current range
 ※2: At 40 to 100% of input voltage or current range

Duty cycle ratio (%)

Range	Resolution	Accuracy 1061,1062
10 to 90%	1%	±1% ^{※1}

※1: At 10,00Hz to 500,0Hz, square wave

At 40 to 100% of input voltage or current range

Peak Hold (P+H) ※1062 only Maximum Reading 5000

Range	Resolution	Response Time Maximum
DCV, DCA	±100 digit	>250μs

⚠ 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.

■ For inquires or orders :



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