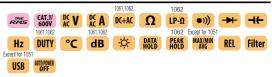
DIGITAL MULTIMETERS



High Accuracy, High Performance and Reliable Measurements

- Top accuracy
 0.02% basic DC accuracy for 1061/1062.
 0.09% basic DC accuracy for 1051/1052.
- Dual display 1061/1062: 50,000 counts, Bar graph with 51 segments. White back light display. 1051/1052: 6,000 counts, Bar graph with 31 segments. Orange back light display.
- True-RMS Measurements
- Wide AC Frequency bandwidth from 10Hz to 100kHz *only for 1062

KEW 1051/1052 KEW 1061/1062



- True-RMS or MEAN value detection mode can be selected *only for 1052, 1062
- DC+AC TRMS Measurement *only for 1061, 1062
 AC and DC values are displayed simultaneously via dual display.
- Fast Peak Hold response time of 250µs *only for 1062
- Low-pass filter *except for 1061
- \bullet Low Power- Ω measurements *only for 1062
- User calibration function

Safety design for industrial use

- \bullet Complies with IEC 61010-1 CAT. III 1000V, CAT. ${\rm IV}$ 600V
- Terminal shutter to prevent incorrect test leads' insertion in current terminals
- Very wide operating temperature range From -20 to +55°C for 1061/1062 From -10 to +55°C for 1051/1052

Reliable support for data management *except for 1051

- · Large data internal memory
- Download data and Live Monitoring on a PC via the USB interface (Option for USB Communication set)*only for 1062

	1051	1052	1061	1062			
Detection mode	RMS	MEAN/RMS (switch)	RMS	MEAN/RMS (switch)			
DC V	600.0mV/6.000/60.00/600.0/1000V (Input impedance: 10MΩ [600mV/60/60 ±0.09%rdg±2dgt (Basic accuracy)	0/1000V], 11MΩ [6V])	$50.000/500.00/2400.0mV/5.0000/50.000/500.00/1000.0V$ (Input impedance: Approx. $100M\Omega$ [50/500/2400mV], $10M\Omega$ [5/50/500/1000V] $\pm 0.02\%$ rdg ± 2 dgt (Basic accuracy)				
AC V	600.0mV/6.000/60.00/600.0/1000V		50.000/500.00mV/5.0000/50.000/500.00/1000.0V				
[RMS]	(Input impedance: $10M\Omega$ <200pF [600m		(Input impedance: $11M\Omega < 50pF [50/500mV/5V], 10M\Omega < 50pF [50/500/1000V]$)				
	10MΩ<50pF [60/600/	1000V]) ±0.5%rdg±5dgt (Basic accuracy)	±0.7%rdg±30dgt (Basic accuracy)	±0.4%rdg±30dgt (Basic accuracy)			
AC V [MEAN] *	-	-	-	$\begin{array}{c} 50.000/500.00mV/5.0000/50.000/500.00/\\ 1000.0V(Input impedance:\\ 11M\Omega<50pF [50/500mV/5V]\\ 10M\Omega<50pF [50/500/1000V]\\ \pm1\%rdg\pm30dgt (Basic accuracy) \end{array}$			
DCV+ACV			$\begin{array}{l} 5.0000/50.000/500.00/1000.0V\\ (Input impedance: 11M\Omega<50pF [5V], 10M\Omega<50pF [50/500/1000V]) \end{array}$				
			±1%rdg±10dgt (Basic accuracy)	±0.5%rdg±10dgt (Basic accuracy)			
DC A	600.0/6000μA/60.00/440.0mA/6.000/	10.00A ±0.2%rdg±2dgt (Basic accuracy)	$500.00/5000.0 \mu \text{A}/50.000/500.00 \text{mA}/5.0000/10.000 \text{A} \pm 0.2\% \text{rdg} \pm 5 dgt (Basic accuracy of the content of the co$				
AC A	600.0/6000µA/60.00/440.0mA/6.000/	10 004 ±0 75%rda±5dat (Basic accuracy)	500.00/5000.0μA/50.000/500.00	mA/5.0000/10.000A			
[RMS]	600.0/6000μΑ/60.00/440.0πΑ/6.000/	TO.OOA ±0.75761ug±5ugt (basic accuracy)	±1%rdg±20dgt (Basic accuracy)	±0.75%rdg±20dgt (Basic accuracy)			
AC A [MEAN] *	-	-	-	500.00/5000.0μA/50.000/500.00mA/ 5.0000/10.000A ±1.5%rdg±20dgt (Basic accuracy)			
DCA+ACA				500.00/5000.0μA/50.000/500.00mA/5.0000/10.000A			
	_	_	±1.5%rdg±10dgt (Basic accuracy) ±1%rdg±10dgt (Basic accuracy)				
Ω		<u> </u>		500.00Ω/5.0000/50.000/500.00kΩ/5.0000/50.000MΩ			
	600.0Ω/6.000/60.00/600.0kΩ/6.000/6	60.00MΩ ±0.4%rdg±1dgt (Basic accuracy)	±0.1%rdg±2dgt (Basic accuracy)	±0.05%rdg±2dgt (Basic accuracy)			
LowPower-Ω *	-	-	-	$5.000/50.00/500.0$ k $\Omega/5.000$ M Ω ± 0.2 %rdg ± 3 dgt (Basic accuracy)			
Continuity buzzer	600.0Ω (The buzzer turns on for resistar	nces lower than $50\pm30\Omega$)	500.0Ω (The buzzer turns on for resistances lower than $100\pm50\Omega$)				
Diode test	2.000V ±1%rdg±2dgt Open circuit volta		2.4000V ±1%rdg±2dgt				
	<3.5V (Approx. 0.5mA Measuring Curre		Open circuit voltage: <5V (Approx. 0.5mA Measuring Current)				
Capacitance	10.00/100.0nF/1.000/10.00/100.0/1000	μF ±2%rdg±5dgt (Basic accuracy)	$ = 5.000/50.00/500.0nF/5.000/50.00/500.0 \mu F/5.000/50.00mF \ \pm 1\% rdg \pm 5 dgt \ \text{(Basic accuracy)} $				
Frequency	10.00~99.99/90.0~999.9Hz/0.900~9.9 ±0.02%rdg±1dgt (Basic accuracy)	99/9.00~99.99kHz	2.000~9.999/9.00~99.99/90.0~99.9Hz/0.900~9.999/9.00~99.99kHz ±0.02% rdg±1dgt (Basic accuracy)				
DUTY	_	_	10~90% ±1%rdg				
Temperature	-50~600°C ±2%rdg±2°C (with the use	of K-type Temperature probe)	-200~1372°C ±1%rdg±1.5°C (with the use of K-type Temperature probe)				
Application standard	IEC 61010-1 CAT.IV 600V, CAT.III 1000V Pollution degree 2, IEC 61010-031, IEC 61326-1 (EMC)						
Power source	R6 (1.5V)×4 (Auto power off: approx. 20 minutes)						
Dimensions	192(L)×90(W)×49(D) mm						
Weight	Approx. 560g (including batteries) 7220A (Test Leads), R6×4, 8926 (Fuse [440mA/1000V])×1 (included), 8927 (Fuse [10A/1000V])×1 (included) Instruction manual						
Accessories	7220A (Test Leads), R6×4, 8926 (Fuse [440mA/1000V])×1 (included), 8927 (Fus	e [10A/1000V])×1 (included) Instructi	ion manual			



DIGITAL MULTIMETERS

Reliable support for data management

Large internal memory to store test data

- KEW1062: 10,000 data in Logging mode, 100 data manually saved.
- KEW1061: 1,000 data in Logging mode, 100 data manually saved.
- KEW1052: 1,600 data in Logging mode, 100 data manually saved.
- Logging interval can set from 1 sec. to 30 min.

Test data can be transferred to a PC or directly to a Printer*

- · Real-time data can be transferred and shown on a PC.
- Real-time transferring permits the saving of a considerable amount of data on a PC.
- Stored data of internal memory can be monitored by PC.

Data management with the software DMM Application*

- Stored data of internal memory can be monitored by PC.
- List of measured data can be converted into Graph.
- · Data can be transferred to Excel** and saved as CSV file.
 - *Optional accessories are required, refer to last page.
 - **Excel is a registered trademark of Microsoft in the USA

Optional Accessories

Description	MODEL	Contents	
Alligator Clip	7234	CAT.IV 600V, CAT.Ⅲ 1000V 1set	
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)+paper×1 roll	
AC adapter for printer [EU]	8248	AC230V±10%	
Thermal paper for printer	8247	10 rolls	
	8405	Max. 500°C (Surface type, Point material: Ceramic)	
Thormocounta Tuno I/	8406	Max. 500°C (Surface type)	
Thermocouple Type K	8407	Max. 700°C (Liquid, Semi-solid)	
	8408	Max. 600°C (Air, Gas)	
	8121	AC 100A	
	8122	AC 500A	
Clamp concer	8123	AC 1000A	
Clamp sensor	8146	AC 30A	
	8147	AC 70A	
	8148	AC 100A	
Banana	7146	length :190mm	
Carrying case	9154	Soft case (for the main unit with test leads and communication cable)	

Thermocouple Type K Specification

MODEL	Usage	Measurement temperature	Tolerance (t: measurement temperature)	Response speed
8405	(Surface type, Point material: Ceramic)	Max. 500°C	±2.5°C/t=-40°C~333°C, ±0.0075× t °C/t	approx. 1.8 Sec.
8406	Surface type		=333°C~500°C	approx. 1.0 Sec.
8407	(Liquid, Semi-solid)	Max. 700°C	±2.5°C/t=-40°C~333°C, ±0.0075× t °C/t =333°C~700°C	1 Sec. or less
8408	(Air, Gas)	Max. 600°C	±2.5°C/t=-40°C~333°C, ±0.0075× t °C/t =333°C~600°C	0.4 Sec.

Data analysis with Excel Printer output THE HART DUTY THE MODERN

festive data ventre (dat ventre Helter ventre (setting 1)

235.73VAC

L0000 N+12.539 VDC L0001 N+12.532 VDC L0002 N+12.532 VDC L0002 N+12.532 VDC L0004 N+12.532 VDC L0004 N+12.538 VDC L0006 N+12.538 VDC L0006 N+12.544 VDC L0008 N+12.545 VDC L0008 N+12.557 VDC L0009 N+12.557 VDC L0010 N+12.555 VDC L0011 N+12.553 VDC L0011 N+12.553 VDC L0011 N+12.553 VDC L0011 N+12.553 VDC

Printed items (from the left)

rinted items (from the left)
-Li Logding memory
-4 digit numbers: Data number
-N: Normal measurement
(O: at "OL" display)
(B: at "Battery warning" display)
-5 digit numbers: Measurement
-VDC: Unit (VDC is DC Voltage)



System requirements

OS: Windows®7(32/64bit)/Vista/XP
Display: XGA (Resolution 1024 x 768 dots) or more
Hard-disk: Space required 10Mbyte or more
Others: With CD-ROM drive and USB port

* Windows® is a registered trademark of Microsoft in the United States.





Clamp sensor Specification

	AC/DC current sensor	AC current sensor			Leakage & AC current sensor		
	8115	8121	8122	8123	8146	8147	8148
	(E	CE T	CE P		CE CE		CE TO
Conductor size	ϕ 12	Φ24	ϕ 40	ϕ 55	ϕ 24	ϕ 40	ϕ 68
Rated current	Surface type	AC 100A	AC 500A	AC 1000A	AC 30A	AC 70A	AC 100A
Output voltage	(Liquid, Semi-solid)	AC 500mV/100A	AC 500mV/500A	AC 500mV/1000A	AC 1500mV/30A	AC 3500mV/70A	AC 5000mV/100A
Accuracy (50/60Hz)	AC ±1.0%rdg±0.4mV DC ±1.0%rdg±0.4mV (This accuracy is defined after a zero-adjustment)	±2.0%rdg±0.3mV			0~15A ±1.0%rdg±0.1mV 15~30A ±5.0%rdg	0~40A ±1.0%rdg±0.1mV 40~70A ±5.0%rdg	0~80A ±1.0%rdg±0.1mV 80~100A ±5.0%rdg
Frequency range	40Hz~1kHz						
Dimensions	127(L)×42(W)×22(D)mm	97(L)×59(W)×26(D)mm	128(L)×81(W)×36(D)mm	170(L)×105(W)×48(D)mm	100(L)×60(W)×26(D)mm	128(L)×81(W)×36(D)mm	186(L)×129(W)×53(D)mm
Weight	approx. 160g	approx. 150g	approx. 260g	approx. 360g	approx. 150g	approx. 240g	approx. 510g