

400A DC/AC AUTORANGING TRUE RMS CLAMP-ON METER WITH FULL MULTIMETER RANGES

SPECIAL FEATURES :

- Measure line-level ACV frequency via test leads
- Relative Zero feature
- 4000 Counts high resolution, Fast measurements
- Versatile & Handy
- Backlight display (KM 062)
- Fully Autoranging on all functions for ease of use
- AC True RMS Voltage & Current Functions (KM 062)
- 30ms Max HOLD to capture in-rush currents
- DCA / ACA 0.1A to 400A non-invasive current measurements.
- Display Hold, PEAK-rms MAX HOLD & Data Hold
- Fast Audible Continuity
- Diode Test

Model KM 061 - AVERAGE SENSING - 18 FUNCTION 37 RANGES

KM 062 - TRUE RMS SENSING - 20 FUNCTION 37 RANGES



GENERAL SPECIFICATIONS :

- * Sensing : Average Sensing ((KM 061) ; True RMS sensing (KM 062)
- * Jaw opening & Conductor diameter : 30mm max
- * Display : 3-3/4 digits 4000 counts LCD display
- * Update Rate : 3 per second nominal
- * Polarity : Automatic
- * Low Battery : Below approx 2.4V
- * Operating Temperature : 0°C to 40°C
- * Relative Humidity : Maximum relative humidity 80% for temperature upto 31°C decreasing linearly to 50% Relative Humidity at 40°C
- * Altitude : Operating below 2000m
- * Storage Temperature : -20°C to 60°C, < 80% R.H. (With battery removed)
- * Temperature Coefficient : nominal 0.15 x (specified accuracy) / °C @ (0°C-18°C or 28°C-40°C), or otherwise specified
- * Power supply : Standard 1.5V AAA Battery x 2.
- * Power Consumption : DCA & ACA : 11mA typical
Other function : 2.9mA typical
- * APO Timing : Idle for 30 minutes
- * APO Consumption : 190 A typical
- * Dimension : 188(L) x 63(W) x 40(H) mm
- * Weight : Approx. 218 gms

SAFETY :

- Meets IEC61010-1 2nd Ed., EN61010-1 2nd Ed., UL61010-1 2nd Ed., IEC61010-2-032, EN61010-2-032, UL61010B-2-032.
- Measurement Category : CAT III 600 Volts AC & DC
- Transient Protection : 6.5kV (1.2/50 S surge)
- Pollution degree : 2
- E. M. C. : Meets EN61326-1:2006 (EN55022, EN61000-3-2, EN61000-3-3, EN61000-4-2 / 3 / 4 / 5 / 6 / 8 / 11.
In an RF field of 3V/m :
Capacitance function is not specified.
Other function ranges :
Total Accuracy = Specified Accuracy + 50 digits
Performance above 3V/m is not specified
- Overload Protections :
Clamp-on jaws : DC / AC 400A rms continuous
+ & COM terminals (all functions) : 600 V DC / V AC rms
- 600V AC / DC input protection on all functions
- Battery cover with Probe Holders
- Rugged Fire retarded casing; Soft carrying pouch
- LVD EN61010-1 & EN61010-2-032 CAT III 600V



Backside Photo

ACCESSORIES :

Test leads (pair), Battery installed, User's Manual & Carrying Case.

All Specifications are subject to change without prior notice

ELECTRICAL SPECIFICATIONS : KM 061/ KM 062

Accuracy is \pm (% reading digits + number of digits) or otherwise specified, at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ & less than 75% R.H.

True RMS ACV & ACA clamp-on accuracies are specified from 5% to 100% of range or otherwise specified. Maximum Crest Factor are as specified below, and with frequency spectrums, besides fundamentals, fall within the meter specified AC bandwidth for non-sinusoidal waveforms. Fundamentals are specified at 50Hz and 60Hz.

AC CURRENT (Clamp-On)

Range	Accuracy ¹⁾
400.0A	
40Hz ~ 60Hz @ 0~50A	$\pm(1.0\%rdg + 6dgts)$
60Hz ~ 400Hz @ 0~50A	$\pm(1.5\%rdg + 5dgts)$
40Hz ~ 60Hz @ 50A~200A	$\pm(1.5\%rdg + 5dgts)$
60Hz ~ 200Hz @ 50A~200A	$\pm(2.0\%rdg + 5dgts)$
40Hz ~ 60Hz @ 200A~300A	$\pm(2.0\%rdg + 5dgts)$
40Hz ~ 60Hz @ 300A~400A	$\pm(2.5\%rdg + 5dgts)$

¹⁾Induced error from adjacent current-carrying conductor : $<0.01A/A$
Crest Factor : $< 1 : 8$ at full scale & $< 3.6 : 1$ at half scale

DC CURRENT (Clamp-On)

Range	Accuracy ^{1) 2)}
400.0A	
0 ~ 50.0A	$\pm(1.0\%rdg + 4dgts)$
50.0A ~ 200.0A	$\pm(1.5\%rdg + 5dgts)$
200.0A ~ 300.0A	$\pm(2.0\%rdg + 5dgts)$
300.0A ~ 400.0A	$\pm(2.5\%rdg + 5dgts)$

¹⁾Induced error from adjacent current-carrying conductor : $<0.01A/A$

²⁾Relative Zero Δ mode is applied to offset the non-zero residual readings, if any

RESISTANCE

Range	Resolution	Accuracy
400.0	100 m	$\pm(0.8\%rdg + 6dgts)$
4.000 k	1	$\pm(0.6\%rdg + 4dgts)$
40.00 k	10	$\pm(0.6\%rdg + 4dgts)$
400.0 k	100	$\pm(0.6\%rdg + 4dgts)$
4.000 M	1 k	$\pm(1.0\%rdg + 4dgts)$
40.00 M	10 k	$\pm(2.0\%rdg + 4dgts)$

Open Circuit Voltage : 0.4V DC typical

CAPACITANCE

Range ¹⁾	Resolution	Accuracy ²⁾³⁾
500.0 nF	100 pF	$\pm(3.5\%rdg + 6dgts)$
5.000 F	1 nF	$\pm(3.5\%rdg + 6dgts)$
50.00 F	10 nF	$\pm(3.5\%rdg + 6dgts)$
500.0 F	100 nF	$\pm(3.5\%rdg + 6dgts)$
3000 F	1 F	$\pm(3.5\%rdg + 6dgts)$

¹⁾ Additional 50.00nF range accuracy is not specified

²⁾ Accuracies with film capacitor or better

³⁾ Specified with battery voltage above 2.8V (approximately half full battery).

Accuracy decreases gradually to 12% at low battery warning voltage of approximately 2.4V

DC VOLTAGE

Range	Resolution	Accuracy
400.0 mV	100 V	$\pm(0.3\%rdg + 3dgts)$
4.000 V	1 mV	$\pm(0.5\%rdg + 3dgts)$
40.00 V	10 mV	$\pm(0.5\%rdg + 3dgts)$
400.0 V	100 mV	$\pm(0.5\%rdg + 3dgts)$
600.0 V	100 mV	$\pm(1.0\%rdg + 4dgts)$

NMRR : $> 50dB @ 50 / 60Hz$

CMRR : $> 120dB @ DC, 50 / 60Hz, R_s=1k$

Input Impedance: 10M Ω , 30pF nominal (1000M Ω for 400mV range)

AC VOLTAGE

Range	Resolution	Accuracy
50Hz / 60Hz		
4.000 V	1 mV	$\pm(1.0\%rdg + 4dgts)$
40.00 V	10 mV	$\pm(1.0\%rdg + 4dgts)$
400.0 V	100 mV	$\pm(1.0\%rdg + 4dgts)$
60Hz ~ 500Hz		
4.000 V	1 mV	$\pm(1.5\%rdg + 4dgts)$
40.00 V	10 mV	$\pm(1.5\%rdg + 4dgts)$
400.0 V	100 mV	$\pm(1.5\%rdg + 4dgts)$
50Hz ~ 500Hz		
600.0 V	100 mV	$\pm(2.0\%rdg + 4dgts)$

CMRR : $> 60dB @ DC$ to 60Hz, $R_s=1k$

Input Impedance : 2M Ω , 30pF nominal

Crest Factor : $< 2 : 1$ at full scale & $< 4 : 1$ at half scale

HZ FREQUENCY

Function	Sensitivity (Sine Wave)	Range
400.0mV	350 mV	10Hz ~ 1kHz
4.000V	3.2 V	5Hz ~ 20kHz
40.00V	25 V	5Hz ~ 100kHz
400.0V	100 V	5Hz ~ 100kHz
600 V	410 V	5Hz ~ 5kHz
DCA/ACA	Unspecified	

Display counts : 5000

Maximum resolution : 0.001Hz

Accuracy : 0.5% + 4d

DIODE TESTER

Test Current	0.4 mA typical
Open Circuit Voltage	$< 1.6V$ DC typical

AUDIBLE CONTINUITY TESTER

Audible Threshold	between 10 and 120
Range	400.0
Accuracy	1.5%rdg + 8dgts
Open Circuit Voltage	0.4V DC typical

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KUSAM-MECO[®]

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