

MODEL KM 035

SPECIAL FEATURES :

- AmpTip™ low-current range calibrated at Jaw-tip for slim-conditions for accurate readings
- MAX / MIN Recording mode.
- MAX / MIN Crest (Peak-Hold) mode.
- Relative-zero mode.
- Display Hold
- EF-Detection (NCV).
- Back-lighted easy-to-read LCD display
- Fully Autoranging
- BeepLit™ Feature.

GENERAL SPECIFICATIONS :

- * Basic accuracy (DCV) : 1.0%
- * Sensing : True RMS
- * Jaws Opening size : 26mm Max.
- * Display : 3-5/6 digits 6000 counts
- * Update Rate : 5 per second nominal
- * Polarity : Automatic
- * Operating Temperature : 0°C to 40°C
- * Relative Humidity : Maximum relative humidity 80% for temperature up to 31°C decreasing linearly to 50% relative humidity at 40°C
- * Altitude : Operating below 2000m
- * Storage Temperature : -20°C ~ 60°C, \ <80% R.H. (with battery removed)
- * Temperature Coefficient : Nominal 0.1 x (specified accuracy) / °C @ (0°C — 18°C or 28°C — 40°C), or otherwise specified
- * Power Supply : Standard 1.5V AAA Size Battery X 2
- * Power Consumption : typical 14mA
- * Low Battery : Below approx. 2.85V for Capacitance & Hz Below approx. 2.5V for other functions
- * APO timing : Idle for 32 minutes
- * APO Consumption : typical 5µA
- * Dimension : 188(L) x 66(W) x 32(H)mm
- * Weight : approx 202 gms.

SAFETY :

- Safety : Certified per IEC/UL/CSA_C22.2_# / EN standards.
61010-1 Ed.3.0, 61010-2-032 Ed. 3.0, 61010-2-033 Ed. 1.0 & 61010-031 Ed. 2.0 to
Measurement Categories CAT III 600V AND CAT IV 300V AC & DC.
- Overload Protection :
Current via jaws : 600A DC / AC rms at <400Hz.
Voltage via terminal: 660V DC / 920VAC rms.
Other functions via terminals : 600V DC / VAC rms
- Pollution Degree : 2
- E.M.C. : Meets EN61326-1
DCA and ACA Functions, in an RF field of 1V/m :
Total Accuracy = Specified Accuracy + 40 digits at around 87MHz
DCµA & Ohm Functions, in an RF field of 1V/m :
Total Accuracy = Specified Accuracy + 25 digits
Other Functions, in an RF field of 3V/m :
Total Accuracy = Specified Accuracy + 20 digits
- Transient Protection : 6.0kV (1.2/50µs surge)
- Rugged Fire retarded housing.
- LVD EN61010-1/61010-2-032/61010-2-033 to CAT III 600V & CAT IV 300V

ACCESSORIES : Test leads set, Users Manual, Carrying case.



Preliminary Data

ELECTRICAL SPECIFICATIONS : KM 035

Accuracy is ± (% of reading digits + number of digits) or otherwise specified, at 23°C ± 5°C

Maximum Crest Factor <2 :1 at full scale & <4:1 at half scale or otherwise specified, and with frequency spectrum not exceeding the specified frequency bandwidth for non-sinusoidal waveforms.

REGULAR AC CLAMP-ON CURRENT

Range	Resolution	Accuracy ¹⁾
50Hz ~ 100Hz		
600.0 A	0.1 A	±(1.5%rdg + 5dgts)
100Hz ~ 400Hz		
600.0 A	0.1 A	±(2.0%rdg + 5dgts)

¹⁾ Induced error from adjacent current-carrying conductor : < 0.1A/A

REGULAR DC CLAMP-ON CURRENT

Range	Resolution	Accuracy ^{1) 2)}
600.0 A	0.1 A	±(2.0%rdg + 5dgts)

¹⁾ Induced error from adjacent current-carrying conductor : < 0.1A/A

²⁾ Specified with DC-Zero mode applied to offset the non-zero residual readings, if any.

CLAMP-ON AmpTip™ AC CURRENT

Range	Resolution	Accuracy ¹⁾
50Hz ~ 60Hz		
60.00 A	0.01 A	±(1.0%rdg + 5dgts)

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

All Specifications are subject to change without prior notice

ELECTRICAL SPECIFICATIONS : KM 035

CLAMP-ON AmpTip™ DC CURRENT

Range	Resolution	Accuracy ¹⁾²⁾³⁾
60.00 A	0.01 A	$\pm(1.0\%rdg + 5dgt)$

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

²⁾ Specified with DC-Zero mode applied to offset the non-zero residual readings, if any.

³⁾ Add 5d to the specified accuracy @ <4A.

AC VOLTAGE (with Digital Low-Pass Filter)

Range	Resolution	Accuracy
50Hz ~ 60Hz		
600.0 V	0.1 V	$\pm(1.5\%rdg + 5dgt)$

Input Impedance : 10M Ω , 100pF nominal

RESISTANCE

Range	Resolution	Accuracy
600.0 Ω	0.1 Ω	$\pm(1.0\%rdg + 5dgt)$
6.000K Ω	1 Ω	

Open Circuit Voltage : 1.0VDC typical

BeepLit™ DIODE TESTER

Range	Resolution	Accuracy ¹⁾
3.000 V	1 mV	$\pm(1.5\%rdg + 5dgt)$

Test Current : 0.3mA typically

Open Circuit Voltage : < 3.5VDC typically

Short Beep Alert Threshold : Drop across 0.850V

BeepLit™ ON Threshold : <0.100V

Audible indication : Beep Sound

Visible Indication : LCD Backlight.

CREST (Peak-Hold)

Applicability	Voltage & Non-invasion Current functions
Accuracy	Add ± 250 digits to specified accuracy for changes > 5ms in duration.

DC VOLTAGE

Range	Resolution	Accuracy
600.0 V	0.1 V	$\pm(1.0\%rdg + 5dgt)$

Input Impedance : 10M Ω , 100pF nominal

BeepLit™ CONTINUITY TESTER

Continuity Threshold	Between 30 Ω & 480 Ω
Continuity ON Response Time	15ms approx.
Audible Indication	Beep sound
Visible Indication	LCD Backlight

NON-CONTACT EF-DETECTION

Bar-Graph Indication	EF-H (Hi Sensitivity)	EF-L (Lo Sensitivity)
	Typical Voltage (Tolerance)	
-	10V (2V~20V)	40V (10V~70V)
--	20V (4V~40V)	80V (20V~140V)
---	40V (8V~70V)	160V (40V~280V)
----	80V (16V~140V)	320V (80V~560V)
-----	160V (>40V)	500V (>160V)

Indication : Bar-graph segments & audible beep tones proportional to the field strength.

Detection Frequency : 50/60Hz

Detection Antenna : Inside the top side of the stationary jaw

Probe-Contact EF-Detection : For more precise indication of live wires, such as distinguishing between live and ground connections, use one single probe to test via terminal COM for direct Metal Probe-contact EF-Detection to achieve the most distinctive indication.

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