

**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 <sup>1)</sup>
<b>50Hz ~ 100Hz</b>		
600.0 A	0.1 A	±(1.5%rdg + 5dgts)
<b>100Hz ~ 400Hz</b>		
600.0 A	0.1 A	±(2.0%rdg + 5dgts)

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

**REGULAR DC CLAMP-ON CURRENT**

Range	Resolution	Accuracy <sup>1) 2)</sup>
600.0 A	0.1 A	±(2.0%rdg + 5dgts)

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

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

**CLAMP-ON AmpTip™ AC CURRENT**

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

<sup>1)</sup> 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 <sup>1)2)3)</sup>
60.00 A	0.01 A	±(1.0%rdg + 5dgts)

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

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

<sup>3)</sup> 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	±(1.5%rdg + 5dgts)

Input Impedance : 10MΩ, 100pF nominal

### RESISTANCE

Range	Resolution	Accuracy
600.0 Ω	0.1 Ω	±(1.0%rdg + 5dgts)
6.000KΩ	1 Ω	

Open Circuit Voltage : 1.0VDC typical

### BeepLit™ DIODE TESTER

Range	Resolution	Accuracy <sup>1)</sup>
3.000 V	1 mV	±(1.5%rdg + 5dgts)

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)

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

### DC VOLTAGE

Range	Resolution	Accuracy
600.0 V	0.1 V	±(1.0%rdg + 5dgts)

Input Impedance : 10MΩ, 100pF nominal

### BeepLit™ CONTINUITY TESTER

<b>Continuity Threshold</b>	Between 30Ω & 480Ω
<b>Continuity ON Response Time</b>	15ms approx.
<b>Audible Indication</b>	Beep sound
<b>Visible Indication</b>	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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