



VOLTAGE TESTER

Model KM 69 - 14 FUNCTIONS 19 RANGES
Model KM 66 - 6 FUNCTIONS 14 RANGES

SPECIAL FEATURES :

- AC-Detection Shaker (KM 69)
- Bi-color LED Hazardous Live warning (at > 70VDC / 33VAC) (KM 69)
- RCD Trip test. (KM 69)
- Segment Bar Graph (KM 69)
- Indicator Self-test
- Ergonomic design for easy grip in hand
- Overload-Alert warning,
- Non-Contact & Probe Contact EF-Detection.

Model KM 69 / KM 66

FEATURES :

- Automatic DCV, ACV, & Continuity Selection.
- Overload Alert warning (1000V LED flashes when >1000V AC / DC)
- RCD Leakage Load for 230V AC / 30mA RCD Circuit Breakers (KM 69)
- Audible Beeper Continuity & Visible LED indications
- High input impedance & Auto Hold
- Auto Power Off

GENERAL SPECIFICATIONS :

- * **Sensing :** Average sensing
- * **Display :** 3 digits 1000 counts Backlight Display (KM 69)
- * **Update Rate :** 5 per second nominal (KM 69)
- * **Operating Temperature :** -10°C ~ 55°C
- * **Relative Humidity :** 20% ~ 96%
- * **Altitude :** Operating below 2000m
- * **Storage Temperature :** -10°C ~ 55°C, 20% ~ 96% R.H. (With battery removed)
- * **Temperature Coefficient :** Nominal 0.15 X (specified accuracy) / °C @ (10°C ~ 18°C or 28°C ~ 55°C), or otherwise specified
- * **Pollution Degree :** 2
- * **Low Battery :** Below approx. 2.4V (KM 66); Below approx. 2.6V with shaker ON (KM 69)
- * **APO Timing :** Idle for 15 seconds
- * **Power Consumption (typical) :** 3mA at power-on ready; 25mA at 1000VAC full LED indication. 75mA at 1000V AC with shaker ON (KM 69)
- * **APO Consumption (typical) :** 10µA
- * **Power Supply :** Standard 1.5V AAA battery x 2
- * **Dimension :** 233(L) x 57(W) x 40(H)mm
- * **Weight :** Approx. 220gm

SAFETY :

- Meets EN61243 voltage class B, EN61010-1 and IEC61010-1 2nd Edition (2001) to CAT III 1000V & CAT IV 600V
- Transient Protection : 8kV lightning surge (1.2/50µs)
- Measurement Category : CAT III 1000V & CAT IV 600V AC & DC
- Overload Protection : 1000VDC & VAC
- Type of Protection : IP65 - water and Dust Resistant.
- Rugged fire retarded double injected casing
- E. M. C. : Meets EN61326 (1997, 1998/A1), EN61000-4-2 (1995), & EN61000-4-3 (1996)

Performance is specified in an RF Field of 3V/m.

Performance above 3V/m is not specified

In an RF Field of 3V/m. (KM 69)

Total Accuracy = Specified accuracy + 45d. (KM 69)

Performance above 3V/m is not specified (KM 69)



KM 69

KM 66

ELECTRICAL SPECIFICATIONS : KM 69/66

Accuracy is given as \pm (% of reading digits + number of digits) or otherwise specified @ 23°C \pm 5°C & less than 75% R.H.

DC & AC VOLTAGE (LED)

DCV Marking	ACV Marking	Typical Threshold
6 V		4.8 V
12 V	12 V	9.6 V
24 V	24 V	19.2 V
50 V	50 V	40 V
120 V	120 V	96 V
230 V	230 V	184 V
400 V	400 V	320 V
690 V	690 V	552 V
1000 V	1000 V	800 V

LED Threshold : < 85% of Voltage marking. Typical @ 80%

Input Impedance : 460K , 160pF nominal

ACV Frequency Response : 45Hz ~ 65Hz

Duty Ratio : Continuous duty

RCD LEAKAGE LOAD (KM 69)

Load Current	30mA typical at 230V
Path Impedance	7.7 K nominal, PTC protected

RCD Leakage Load feature is for 230V nominal circuits only. It is disabled above 270V & below 120V

NON-CONTACT EF-DETECTION

Indication : EF LED flashing & audible beep tones proportional to the field strength

Detection Frequency : 50 / 60Hz

Detection Antenna : Top right side of the meter

Probe-Contact EF-Detection : For more precise indication of live wires, such as distinguishing between live and ground connections, use the Red (+) test probe for direct contact measurements.

KM-69 also displays Bar graph segments proportional to the field strength on LCD.

Typical values are shown in the following table :(KM 69)

Typical Non-contact Voltage Range	Lcd Bar Graph Indication
15V to 55V	—
30V to 95V	— —
55V to 170V	— — —
Above 120V upto 1000V	— — — —

DC & AC VOLTAGE (LCD display) (KM 69)

Range	Threshold	Accuracy
DC 999V	> + 4.5V DC or < - 4.5V DC	$\pm(1.0\%rdg + 2dgt)$
AC 999V (50Hz / 60Hz)	> 8 VAC	$\pm(2.5\%rdg + 4dgt)$

Input Impedance : 460K , 160pF nominal

Duty Ratio : Continuous duty

AC DETECTION SHAKER THRESHOLD (KM 69)

Shaker ON : > 15V AC nominal

Shaker OFF : < 8V AC nominal



AUDIBLE CONTINUITY

Open Circuit Voltage : 0.4V DC Typical

Audible Threshold : between 50K and 2000K