

VOLTAGE TESTER

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 - 14 FUNCTIONS 19 RANGES**Model KM 66 - 6 FUNCTIONS 14 RANGES****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 ± (% of reading digits + number of digits) or otherwise specified @ 23°C ± 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	±(1.0%rdg + 2dgt)
AC 999V (50Hz / 60Hz)	> 8 VAC	±(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