# HIGH SAFETY " UL " APPROVED DIGITAL MULTIMETERS

## 50,000 COUNTS AC; AC+ DC TRUE RMS DIGITAL MULTIMETER WITH VFD FEATURE & PC INTERFACE
**Model - KM 869**

IP54



CAT IV 1KV

12KV Transient Protection

- **Sensing :** AC, AC+DC True RMS Sensing
- **DC Voltage Basic Accuracy :** 0.02%
- **Display :** 4-4/5 Digits 50,000 counts fast mode. Selectable stable mode 5-4/5 Digits 500,000 counts for DC Voltage & 5 digits 99,999 counts for Hz large Dual LCD display with white Backlight.

**FUNCTIONS :**

- **AC Voltage :** 10 µV ~ 1000 V (upto 100kHz).
- **DC Voltage :** 10 µV ~ 1000 V.
- **DC$^{AC}$ & AC+DC$^{AC}$ Voltage (20 Hz~40 kHz) :** 10 µV ~ 1000 V.
- **VFD AC Voltage (5 Hz ~ 440 Hz) :** 100 µV ~ 1000 V.
- **DC Current :** 10 nA ~ 10 A.
- **AC, DC$^{AC}$ & AC+DC$^{AC}$ Current (50 Hz~100kHz) :** 10 nA ~ 10 A.
- **Resistance :** 10 mΩ ~ 50 MΩ.
- **Capacitance :** 10 pF ~ 25 mF.
- **Line Level Frequency (Hz) :** 10 Hz ~ 200 kHz.
- **Logic Level Frequency :** 5.000 Hz ~ 1.0000 MHz.
- **Duty Cycle :** 0.1 % ~ 99.99 %
- **T1-T2 Temperature :** -50.0°C ~ 1000.0°C
- **Conductance :** 99.99 nS (0.01 nS).

**SAFETY :**

- Double insulation per IEC/UL/EN61010-1Ed.3.0 Category IV 1000 V AC & DC .
- **E.M.C. :** Meets EN61326-1:2006
- Pollution degree 2

**ADDITIONAL FUNCTIONS :**

- 41 Segment Analog Bar-Graph.
- Relative Zero Mode & Display Hold.
- Crest (Instantaneous Peak Hold) function.
- T1-T2 differential Temperature readings.
- Record MAX, MIN & AVG. readings.
- dBm function with 20 selectable values.
- DC Loop Current % 4-20mA
- Diode Test & Continuity Test.
- Rugged fire retarded casing.
- BeepJack audible & visible input warning.

- **APO Timing:** Idle for 17 minutes
- **Power supply :** Single Alkaline 9V battery.
- **Weight :** Approx. 635gm. with Holster.
- **Dimension :** Approx. 208(L)x103(W)x64.5(H)mm with Holster.
- **Accessories :** Test lead pair, Holster, Battery installed, User Manual, Carrying case, One BKP60 banana plug type-K Thermocouple (250°C).
- **Optional Accessories :** PC BU86X interface kit, Magnetic Hanger, BKB32 banana pins to type-K socket plug adaptor. Current Clamp Adaptor CA500, CA1000, CA2000, High Voltage Probe PD-28.

## 50,000 / 500,000 COUNTS TRMS DIGITAL MULTIMETER WITH PC INTERFACE
**Model - KM 859CF / KM 857**



CAT III 1000V
CAT IV 600V

8KV Transient Protection

- **Sensing :** AC, AC+DC TRUE RMS Sensing
- **DC Voltage Basic Accuracy :** 0.02%
- **Display :** 4-4/5 digits 50,000 counts. Selectable stable mode 5-4/5 digits 500,000 counts for DC Voltage & 6 digits 999,999 counts for Hz.

**FUNCTIONS :**

- **DC Voltage :** 1 µV ~ 1000 V.
- **AC & AC+DC Voltage (20Hz ~ 100kHz) :** 10 µV ~ 1000 V **(KM 859CF).**
- **AC & AC+DC Voltage (20Hz ~ 20kHz) :** 10 µV ~ 1000 V **(KM 857).**
- **DC Current :** 10 nA ~ 10 A.
- **AC & AC+DC Current (50Hz ~ 10kHz) :** 10nA ~ 10 A **(KM 859CF).**
- **AC & AC+DC Current (50Hz~1kHz) :** 10nA ~ 10 A **(KM 857).**
- **Resistance :** 10 mΩ ~ 50 MΩ.
- **Capacitance :** 10 pF ~ 9999 µF.
- **Hz Line Level Frequency :** 10 Hz ~ 200 kHz.
- **Hz Logic Level Frequency :** 5.0000Hz ~ 2.00000 MHz.
- **Duty Cycle :** 0.1 % ~ 99.99 %.
- **T1-T2 Temperature :** -50°C ~ 1000°C **(KM 859CF).**

**SAFETY :**

- Double insulation per IEC/UL/EN61010-1Ed.3.0 CAT III 1000V AC & DC & CAT IV 600V AC & DC.
- **E.M.C. :** Meets EN61326-1:2006

**ADDITIONAL FUNCTIONS :**

- 42 Segments Analog Bar-Graph.
- Record MAX, MIN, MAX-MIN readings.
- Crest (Instantaneous Peak Hold).
- Fully Autoranging & Relative zero mode.
- dBm readings & Data Hold Function.
- %4-20mA loop current readings.
- Low Battery Indication & Auto Power Off.
- Diode Test & Continuity Test
- Rugged fire retarded casing.

- **Power supply :** Single Alkaline 9V Battery.
- **Weight :** Approx. 500gm.(with Holster)
- **Dimension :** Approx.198(L)x97(W)x55(H)mm(with Holster)
- **Accessories :** Test lead pair, Holster, Battery installed, User Manual, Carrying case, BKP60 banana plug type-K Thermocouple (250°C) **(KM 859CF).**
- **Optional Accessories :** PC Interface kit (BRUA-85Xa), BKB32 banana pins to type-K socket plug adaptor. (KM 859CF). Current Clamp Adaptor CA500, CA1000, CA2000. High Voltage Probe PD-28.

## 60,000 COUNTS AC & AC+DC TRMS DIGITAL MULTIMETER WITH NON-CONTACT EF-DETECTION & dBm FUNCTION
**Model - KM 789**



8KV Transient Protection

- **Sensing :** AC & AC+DC True RMS
- **DC Voltage Basic Accuracy :** 0.03%
- **Display :** 4-5/6 digits 60,000 counts Backlight LCD display.
- **Update :** 4-5/6 digit : 5 per second
  31 Segment Bar-Graph : 50 per second

**FUNCTIONS :**

- **DC Voltage :** 10 µV ~ 1000.0 V
- **AC Voltage (50Hz ~ 100kHz) :** 10 µV ~ 1000.0 V
- **AC+DC Voltage (50Hz ~ 20kHz) :** 10 µV ~ 1000.0 V
- **Resistance :** 0.01Ω ~ 60.000 MΩ.
- **Conductance :** 99.99nS
- **Capacitance :** 0.01 nF ~ 10.00 mF.
- **Loz Auto-DCV & ACV :** 1 mV ~ 1000.0 V
- **AC+DC Current (0Hz, 40Hz ~ 3kHz):** 0.01 µA ~ 10.000 A.
- **DC Current :** 600.0 µA ~ 10 A.
- **AC Current (40 Hz ~ 3 kHz) :** 600.00 µA ~ 10 A.
- **VFD AC Voltage (10Hz ~ 440Hz) :** 0.01V ~ 1000.0 V.
- **Temperature :** -200.0°C ~ 1090°C(K-Type Thermocouple)
- **Hz Logic Level Frequency :** 5.000 Hz ~ 1.0000 MHZ.
- **Hz Line Level Frequency :** 10 Hz ~ 50 kHZ.

**SAFETY :**

- Double insulation per IEC/UL/EN/BSEN 61010-1 Ed. 3.0, IEC/UL/EN/BSEN 61010-2-030 Ed. 1.0, IEC/UL/EN/BSEN 61010-2-033 Ed. 1.0, IEC/UL/EN/BSEN 61010-031 Ed.2.0 and the corresponding CAN/CSA-C22.2 regulations to Measurement Categories III 1000V AC & DC and Category IV 600V AC & DC.
- **E.M.C.** : Meets EN/BSEN 61326-1:2013
- **Pollution Degree :** 2

**ADDITIONAL FUNCTIONS :**

- DC Loop Current %4~20mA
- 31 Segments Analog Bar-Graph 50 per second.
- Crest (Instantaneous Peak hold) MAX & MIN readings
- Record MAX, MIN, & AVG readings
- dBm readings , % Duty Cycle
- T1-T2 differential temperature readings
- Relative-Zero mode, Data Hold, Auto Hold, VFD function
- BeepLit™ Diode Test & Continuity Test
- Low Battery : Below Approx. 3.7V

- **APO :** Idle for 15 minutes
- **Power supply :** 1.5V AAA Alkaline battery x 3
- **Weight :** Approx. 420gm. with holster.
- **Dimension :** Approx.193(L) x 89(W )x 51(H)mm
- **Accessories :** Test lead pair, Holster, Battery, User Manual, Bkp60 banana plug K Type Thermocouple.
- **Optional Accessories :** Bkb32 banana plugs to K-type socket plug adaptor, BMH-02 magnetic hanger strap