HIGH SAFETY " UL " APPROVED DIGITAL MULTIMETERS

6000 COUNTS TRUE RMS DIGITAL MULTIMETER WITH VFD, EF-DETECTION, 3PHASE ROTATION-R & ROTATION-M (MOTORS) MODEL - KM 239R

IP40 Design

CAT II 1000V
CAT III 600V
CAT IV 300V

6 KV Transient Protection



- **Sensing :** True RMS sensing
- **Display :** 3-5/6 digits 6000 counts with Backlight LCD Display.

FUNCTIONS :

- **AC Voltage (50Hz~440Hz) :** 1mV ~ 1000V
- **AC mV (10Hz~800Hz) :** 10µV ~ 600mV
- **DC Voltage :** 10µV ~ 1000V
- **DC mV :** 10µV ~ 600mV
- **VFD AC Voltage (with low-pass) :** 100mV ~ 1000V
- **AutoV AC / DC Voltage :** 100mV ~ 1000V
- **AC / DC Current :** 1mA ~ 10A, 20A (30 seconds)
- **DC µA / AC µA :** 0.1µA ~ 2000µA
- **Resistance :** 0.1Ω ~ 60MΩ
- **Line Frequency :** 10Hz ~ 50kHz
- **Capacitance :** 1nF ~ 10mF
- **Temperature :** -40.0°C ~ 400°C / -40.0°F ~ 752°F
- **Non-Contact EF-Detection**
- Pollution Degree 2

SAFETY :

- Double insulation per IEC/UL/EN61010-1Ed.3.0 CAT II 1000V, CAT III 600V & CAT IV 300V AC & DC.
- **E.M.C.** : Meets EN61326-1:2013

ADDITIONAL FUNCTIONS :

- Auto V(LoZ), VFD V & Hz Function.
- 3 phase rotation-R (Regular-sensitivity mode) for supply systems (probe-contact)
- 3 phase rotation-M (Hi-sensitivity mode) for Motors (probe-contact)
- BeepLit™ Continuity Features Audible Beep & Visible Backlight Effects
- Auto-ranging Relative Zero Mode
- MAX / MIN / AVG Record mode
- Display Hold & EF-Detection(NCV)
- BeepJack™ on µA, mA or A Terminal
- Rugged Fire retarded casing.
- Low Battery Indication below approx. 2.5V
- Diode & Continuity Test.
- Auto Power Off 30 minutes

- **Power supply :** 1.5V AAA Alkaline Battery X 2
- **Weight :** Approx. 334gm. with holster.
- **Dimension :** Approx.161(L)x80(W)x50(H)mm with holster.
- **Accessories :** Test lead pair, Holster, Battery installed, BKP60 banana plug type-K Thermocouple, User Manual, Alligator clip set & Carrying case.
- **Optional Accessories :** Magnetic Hanger, Current Clamp Adaptor CA500, CA1000, CA2000, H.V. Probe PD-28.

6000 COUNTS TRMS DIGITAL MULTIMETER WITH VFD & EF-DETECTION PC INTERFACE (OPTIONAL) Model - KM 2257

IP40

CAT III 600V
CAT IV 300V

6.0KV Transient Protection



- **Sensing :** TRUE RMS.
- **DC Voltage Basic Accuracy :** 0.2%
- **Display :** 3-5/6 digits 6000 counts Backlight LCD display.
- **Update :** 3-5/6 Digit : 5 per second; 60 Segment Bar-graph: 40 per second

FUNCTIONS :

- **AC Voltage (50 Hz ~ 500 Hz) :** 1 mV ~ 1000 V
- **ACmV (40 Hz ~ 1 kHz) :** 10 µV ~ 600.0 mV
- **VFD AC Voltage (Low Pass Filter) (10 Hz ~ 400 Hz):** 100 mV ~ 1000 V
- **AutoV AC Voltage (50 Hz ~ 60 Hz):** 1mV ~ 1000V
- **DC Voltage :** 10 µV ~ 1000 V.
- **AutoV DC Voltage :** 1mV ~ 1000V
- **DC Current :** 100 nA ~ 10 A.
- **AC Current (50 Hz ~ 400Hz) :** 100 nA ~ 10 A.
- **Resistance :** 100 mΩ ~ 60 MΩ.
- **Capacitance :** 10 pF ~ 10 mF.
- **Temperature :** -40.0 °C ~ 1000 °C.(K-Type Thermocouple)
- **Line Frequency :** 10 Hz ~ 50 kHz.
- **Hz Logic Level Frequency :** 10.00 Hz ~ 200.0 kHz.

SAFETY :

- Certified per IEC/UL/EN/BSEN 61010-1 Ed. 3.1, IEC / UL / EN / BSEN 61010-2-033 Ed. 2.0, IEC/UL/EN/BSEN 61010-031 Ed. 2.0 and the corresponding CAN/CSA-C22.2 regulations to Measurement Categories: CAT III 600V and CAT IV 300V AC & DC
- **E.M.C.** : Meets EN61326-1
- **Pollution Degree :** 2

ADDITIONAL FUNCTIONS :

- Ingress Protection : IP40
- Auto-ranging MAX/MIN/AVG Record;
- Auto-ranging Relative Zero mode;
- EF-Detection (NCV).
- BeepJack™ on µAmA/A terminals
- Display Hold & Crest mode (Instantaneous Peak Hold)
- AutoV (LoZ); VFD Function
- BeepLit™ Continuity & Diode Test

- **Low Battery:** Below approx. 2.5V
- **APO Timing:** Idle for approx. 30 minutes
- **Power supply :** 1.5V AAA Battery x 2.
- **Weight :** Approx. 334gm. with holster.
- **Dimension :** Approx.161(L) x 80(W) x 50(H)mm with holster.
- **Accessories :** Test lead pair, Battery installed, User Manual, Carrying case & banana plug type-K Thermocouple (250°C).
- **Optional Accessories :** BKB32 banana plug to type-K socket plug adaptor; BMH-01 magnetic hanger; USB interface kit BRUA-20X

6000 COUNTS TRMS ENHANCED PRACTICAL DMM WITH VFD & EF-DETECTION Model - KM 2807CSE

CAT III 1000V
CAT IV 600V

8.0KV Transient Protection



- **Sensing :** TRUE RMS.
- **DC Voltage Basic Accuracy :** 0.2%
- **Display :** 3-5/6 digits 6000 counts Backlight LCD display.
- **Update :** 5 per second

FUNCTIONS :

- **AC Voltage (50 Hz ~ 1 kHz) :** 10 µV ~ 1000 V
- **VFD AC Voltage (Low Pass Filter) (10 Hz ~ 400 Hz):** 100 mV ~ 1000 V
- **DC Voltage :** 10 µV ~ 1000 V.
- **DC Current :** 100 nA ~ 10 A.
- **AC Current (50 Hz ~ 500Hz) :** 100 nA ~ 10 A.
- **Resistance :** 100 mΩ ~ 60 MΩ.
- **Capacitance :** 10 pF ~ 2000 µF.
- **Temperature :** -40.0 °C ~ 400 °C.(K-Type Thermocouple)
- **Line Frequency :** 10 Hz ~ 50 kHz.
- **Logic Level Frequency :** 5.00 Hz ~ 300.0 kHz.

SAFETY :

- Certified per IEC / UL / EN61010-1 Ed. 3.1, IEC / UL / EN61010-2-033 Ed. 2.0, IEC / UL / EN61010-031 Ed. 2.0 and the corresponding CAN/CSA-C22.2 regulations to Measurement Categories: CAT III 1000V and CAT IV 600V
- **E.M.C.** : Meets EN61326-1:2013
- **Pollution Degree :** 2

ADDITIONAL FUNCTIONS :

- VFD-ACV & VFD-Hz;
- Display Hold w/Hold-alert™ warning;
- Relative-Zero mode; MAX Hold
- Hi/Lo EF-Detection (NCV & Single pole);
- BeepLit™ Diode w/BeepPass™ indication;
- BeepJack™ audible & visible input warning
- BeepLit™ Continuity Test & BeepLit™ Diode Test

- **Low Battery:** Below approx. 2.5V
- **APO Timing:** Idle for approx. 32 minutes
- **Power supply :** 1.5V AAA Battery x 2.
- **Weight :** Approx. 430gm. with holster.
- **Dimension :** Approx.198(L) x 97(W) x 55(H)mm with holster.
- **Accessories :** Test lead pair, Battery installed, User Manual, Carrying case & banana plug type-K Thermocouple (250°C).
- **Optional Accessories :** BKB32 banana-plug to type-K socket plug adaptor .