DIGITAL MULTIFUNCTION TRMS POWER METER
MODEL- KM-PM-237C

NEW

Multifunction Power meters is suitable for Control Panels, Monitoring Power & Control in 3ϕ 3wire & 3ϕ 4wire systems. Current, Voltage, Power, Energy, & Harmonics measurement.



Preliminary Data

✷ GENERAL SPECIFICATIONS :

- **Display :** 4 rows, 4 Digit LCD display with backlight
- **Size :** 96 x 96 mm

- **FUNCTIONS :**

  Voltage : 0 - 600V AC phase to phase (Max 0 - 720V AC)

  Current : Input : 5A (max 7.5A) or **Input :** 1A (max 1.2A)

  Input Frequency : 45 ~ 65Hz **Response Time :** 500ms

- **DIGITAL SIGNAL :**

  - **Energy pulse output :** Active energy pulse output, optocoupler isolation (5KVrms)
  - **Relay output :** One way electromagnetic relay output, including normally open and normally closed contacts, contact capacity: 3A / 30V DC, 3A / 250V AC.
  - **Digital input :** 2 dry contact input, optocoupler isolation (5KVrms)

- **COMMUNICATION :**

  - **RS485 communication :** One way RS485 communication interface
  - **Interface type:** 2 wire half duplex
  - **Communication baudrate:** 2400bps ~ 19200bps
  - **Protocol:** Modbus RTU

- **MEASURING DATA :**

  - **Harmonics :** The total harmonics of each phase of voltage and current
  - **Phase Voltage :** U1, U2, U3 and average value.
  - **Line Voltage :** U12, U23, U31 and average value.
  - **Current :** I1, I2, I3 and average value.
  - **Power :** Active power, Reactive power, Apparent power (total and per phase).
  - **Energy :** Active energy import, active energy export, reactive energy import, reactive energy export. apparent energy. If it exceeds 9999999.9kwh, the energy value will be reset to "0" automatically.
  - **Power Factor :** Including power factor PF and fundamental power factor DPF (average value of each phase and three phases).

- **MAX / MIN :**

  - **Voltage :** Per phase
  - **Current :** Per phase

- **UNBALANCE DEGREE**

  - **Voltage :** Per phase
  - **Current :** Per phase

- **DEMAND / MAXIMUM DEMAND**

  - **Current :** Per phase
  - **Power :** Active power, Reactive power, Apparent power (sum of all phases and three phases)

- **ACCURACY**

  - RDG: reading, FS: full scale

- **CURRENT MEASUREMENT :**

  - **Acc. Range :** ±0.3%rdg (0.5% FS～100%FS)
  - **Voltage :** 0.2%(30～600V AC)
  - **Grid frequency :** 0.01%(45～65Hz)
  - **Power factor :** ±0.005
  - **Active and apparent power :** IEC62053-22 level 0.5S
  - **Reactive power :** IEC62053-21 level 2S
  - **Active energy :** IEC62053-22 level 0.5S
  - **Reactive energy :** IEC62053-21 level 2S

- **POWER :** 95~265V AC / 110~250V DC
  - **Maximum power consumption :** 3.5VA