

DISPLAY

- The liquid crystal display (LCD) is 4 digits with maximum reading 9999 counts.
- Backlight function.
- Automatic polarity indication.
- The "⊕" appears when the battery voltage drops is low.

FUNCTIONS

- Test Ranges: DCV, ACV, ACA, OHM, W, W3, HV, HA, PHASE SEQ, Audible continuity tests.
- Clamp Jaws opening: Max. 30 mm.
- Frequency with test leads and jaws up to 400 Hz.
- Phase sequence with one wire.
- Active, Reactive, Apparent power on Single/Three phase systems.
- Active, Reactive, Apparent energy on Single/Three phase systems.
- Power Factor, cosφ on Single/Three phase systems.
- Harmonic voltage up to 25th with THD%.
- Harmonic current up to 25th with THD%.
- Continuity test.
- Autorange.
- Backlight.
- Auto Power OFF.
- Data HOLD function.
- MAX/MIN/AVG function.
- Fast PEAK function (1ms).
- Low battery indication.

SAMPLING SPEED

- Sampling Rate: 64 samples/period.

SPECIFICATIONS

Accuracy is given as ±(% of reading + No. of least significant digits) at 23°C±5°C, with relative humidity less than 80% R.H.

ACCESSORIES

- User's manual
- Soft carrying case
- Couple of Test leads
- Couple of crocodile test leads
- Battery x 2 pcs
- Rubber holder for test leads

POWER SUPPLY

- 2 x 1.5V IEC R03 AAA carbon-zinc or alkaline type batteries
- Auto Power OFF function

OPERATION CONDITION

- Operating Temperature & Humidity: 5°C ~ 40°C, below 80%RH.
- Storage Temperature & Humidity: -10°C ~ 60°C, below 70%RH.

DIMENSION

- Size: 205 (H) x 64 (W) x 39 (L) mm
- Weight: about 280g (including battery)

TM-1017 Performs Reliable Trms Measurements Of AC/DC Voltage, AC Current, Frequency, Resistance, Continuity, Phase Totation, Voltage And Current Harmonics, Active Power, Teactive Power, Apparent Power, Power Factor And Cos. Complying With EN 61010-1 CAT III 600V



| DCV | Range | Resolution | Accuracy | Overload Protection |
|-----|-------|------------|-----------|---------------------|
| | 600V | 0.1V | ±(1.0%+3) | 600A RMS |

● Input Impedance: 1MW

| ACV (TRMS) | Range | Resolution | Accuracy | | Overload Protection |
|------------|-------|------------|-----------------|-----------------|---------------------|
| | | | 40Hz~200Hz | 200Hz~400Hz | |
| 600V | 0.1V | 0.1V | ±(1.0%rdg+3dgt) | ±(5.0%rdg+3dgt) | 600A RMS |
| | | | ±(1.0%rdg+3dgt) | ±(5.0%rdg+3dgt) | |

● Input Impedance: 1MW ; Max crest factor: 1.5

| ACV/DCV PEAK MEASUREMENT | Range | Resolution | Accuracy | Response time | Overload Protection |
|--------------------------|-------|------------|-----------------|---------------|---------------------|
| | 850V | 1V | ±(5.0%rdg+3dgt) | 1ms | 600V RMS |

| ACA (TRMS) | Range | Resolution | Accuracy | | Overload Protection |
|------------|-------|------------|-----------------|-----------------|---------------------|
| | | | 40Hz~200Hz | 200Hz~400Hz | |
| 400A | 0.1A | 0.1A | ±(1.0%rdg+3dgt) | ±(5.0%rdg+3dgt) | 600A RMS |
| | | | ±(1.0%rdg+3dgt) | ±(5.0%rdg+3dgt) | |

| ACA PEAK MEASUREMENT | Range | Resolution | Accuracy | Response time | Overload Protection |
|----------------------|-------|------------|------------------|---------------|---------------------|
| | 800A | 1A | ±(5.0%rdg+10dgt) | 15ms | 600A RMS |

| RESISTANCE | Range | Resolution | Accuracy | Overload Protection |
|------------|-------|------------|-----------------|---------------------|
| | 500Ω | 0.1 | ±(1.0%rdg+5dgt) | 600A RMS |
| | 1000Ω | 1Ω | | |
| 2000Ω | 3Ω | | | |

| FREQUENCY (TEST LEADS + CLAMPS JAWS) | Range | Resolution | Accuracy | Overload Protection |
|--------------------------------------|-------|------------|----------|---------------------|
| | 400Hz | 0.1Hz | 1~15 | 600V RMS |

● Voltage range: 0.5~ 600V (test leads)±Q

● Current range: 0.5 ~ 400A (clamp's jaws)

| ACTIVE POWER, REACTIVE POWER, APPARENT POWER | Range | Resolution [kW], [kVAR],[kVA] | Accuracy |
|----------------------------------------------|-------|-------------------------------|-----------------|
| | 10 | 0.01 | ±(3.0%rdg+3dgt) |
| | 1000 | 0.1 | ±(3.0%rdg+3dgt) |

| POWER FACTOR | Range | Resolution | Accuracy |
|--------------|----------|------------|-----------------|
| | 0.2~1.00 | 0.01 | ±(2.0%rdg+2dgt) |

● Current range for Power Factor measurement 3 2A

| VOLTAGE & CURRENT HARMONICS | Range | Resolution [V], [A],[%] | Accuracy |
|-----------------------------|-------|-------------------------|------------------|
| | 1~15 | 0.1 | ±(10.0%rdg+5dgt) |
| | 16~25 | 0.1 | ±(15.0%rdg+5dgt) |

| CONTINUITY TEST | Range | Accuracy | Test Voltage | Overload Protection |
|-----------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|
| | Continuity | Continuity Built-in buzzer sounds when reading is below approx. 40Ω, the buzzer turns off when reading is greater than 40W. <1.5VDC 600V RMS | <1.5VDC | 600V RMS |