



AFLEX 3003

Flexible VA Harmonics Tester

Electrical Specifications: (23°C±5°C)

AC Current (50 or 60 Hz, Auto Range, True RMS, Crest Factor<4, CT=1)

| Range | Resolution | Accuracy of Readings |
|----------------|------------|----------------------|
| 0 – 300.0A | 0.1A | ±1% of range |
| 300.0 – 999.9A | 0.1A | ±1% of range |
| 1000 – 3000 A | 1 A | ±1% of range |

AC Voltage (50/60 Hz, Auto Range, TRMS, C.F.<4, Overload Protection AC 800V)

| Range | Resolution | Accuracy of Readings |
|-----------------|------------|----------------------|
| 4.0 V – 600.0 V | 0.1 V | ±0.5% ± 5dgts |

Harmonics of AC Voltage in Percentage

| Range | Resolution | Accuracy |
|-----------------------|------------|---------------------|
| 1 – 20 th | 0.1% | ±2% |
| 21 – 50 th | 0.1% | 4% of reading ±2.0% |

Harmonics of AC Voltage in Magnitude

| Range | Resolution | Accuracy |
|-----------------------|------------|---------------------|
| 1 – 20 th | 0.1% | ±2% ± 0.5V |
| 21 – 50 th | 0.1% | 4% of reading ±0.5V |

Harmonics of AC Current in Percentage

| Range | Resolution | Accuracy |
|-----------------------|------------|---------------------|
| 1 – 20 th | 0.1% | ±2% |
| 21 – 50 th | 0.1% | 4% of reading ±2.0% |

Harmonics of AC Current in Magnitude

| Range (0 – 300A) | Resolution | Accuracy |
|-----------------------|------------|----------------------|
| 1 – 20 th | 0.1% | ±2% of reading ±0.4A |
| 21 – 50 th | 0.1% | ±4% of reading ±0.4A |

Harmonics of AC Current in Magnitude

| Range | Resolution | Accuracy |
|-----------------------|------------|---------------------|
| 1 – 20 th | 0.1% | ±2% of reading ±40A |
| 21 – 50 th | 0.1% | ±4% of reading ±40A |

Phase Angle (Φ , V > 20V, A > 30A)

| Range | Resolution | Accuracy |
|---------------|------------|----------|
| -180° to 180° | 0.1° | ± 1° |
| 0° to 360° | 0.1° | ± 1° |

Total Harmonic Distortion

| Range | Resolution | Accuracy |
|---------------|------------|-----------------------|
| 0.0 – 20% | 0.1% | ± 2% |
| 20 – 100% | 01% | ± 6% of reading ± 1% |
| 100 – 999.9 % | 0.1% | ± 10% of reading ± 1% |

Peak Value of AC Voltage (RMS value > 10V) or AC Current (RMS value > 30A)

| Range | Sampling Time | Accuracy of Reading |
|-------|---------------|---------------------|
| 50 Hz | 39 μ s | ± 5% ± 30 digits |
| 60 Hz | 33 μ s | ± 5% ± 30 digits |


Crest Factor (C.F.) of ACV (RMS value > 10V) or ACA (RMS value > 30A)

| Range | Resolution | Accuracy of Readings |
|--------------|------------|----------------------|
| 1.00 – 99.99 | 0.01 | ± 5% ± 30 digits |

Frequency of ACV (RMS value > 10V) or ACA (RMS value > 30A)

| Range | Resolution | Accuracy |
|---------|------------|----------|
| 45 – 65 | 0.1 | ± 0.2Hz |

General Specifications:

| | |
|----------------------------------|---|
| Probe Length: 3000-24 | 24 in / 610 mm |
| Minimum Bending Diameter: | 35mm |
| Connector Diameter: | 23mm |
| Cable Diameter: | 14mm |
| Cable Length from Probe to Box: | 1700mm |
| Cable Length from Box to Output: | 1700mm |
| Dimension (Box): | 130mm(L) x 80mm(W)x 43mm(H) 5.1"(L) x 3.1"(W) x 1.7"(H) |
| Battery Type: | two 1.5V SUM-3 |
| Battery life: | 200hrs @ 2000mAH. |
| Display: | 4+4 digits LCD |
| Range Selection: | Auto |
| Overload Indication: | OL |
| Power Consumption: | 10mA(approx.) |
| Low battery Indication: |  |
| Auto-Power-Off: | 30 minutes after power-on |
| LCD Update Time: | 2 times/sec. |
| No. Of Samples per Period | 512 (voltage or current) 256 (power) |
| Data logging memory size: | 8000 records |
| Data logging sampling time: | 0~600 sec |
| Data logging period: | 8000 x sampling time (0~600 sec.) |
| Operating Temperature: | -10°C to 85°C |
| Operating Humidity: | 15% to 85% RH |
| Altitude: | up to 2000M |
| Storage Temperature: | -20°C to 85°C |
| Storage Humidity: | 15% to 85% RH |
| Weight: | 430g (battery included) |
| Accessories: | Test leads Carrying case x 1 Users manual x 1 Batteries 1.5V x 2 |

PROVA[®]

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