

Digital Harmonics Clamp Tester

AC Leakage Current ,400mA/4A/40A/300A

Harmonics current, 40mm ϕ CT

Model HWT-300



FEATURES

- Harmonics and leakage current measurements.
- Data-hold and Auto power off function.
- The best tool to measure up to 25th harmonics current in the field.
- Analog data output function.

SPECIFICATIONS

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| Measuring method | : Dual slope integration mode |
| Input frequency | : 45Hz~65Hz |
| Display | : 3.5 digit LCD, max. reading of 3999 |
| Jaw opening capability | : 40mm ϕ |
| Data output | : DC 100mV for full scale(400mA/4A/40A ranges) DC75mV for full scale(300A range) Accuracy $\pm 1\%$ of full scale Output impedance 10k Ω or less |
| Over range indication | : "OL" mark on LCD |
| Low battery indication | : "Battery" mark on LCD |
| Data hold indication | : "DH" mark on LCD |
| Sampling | : 2 times/sec. |
| Withstanding voltage | : AC 2200V 1 minute max. (Between the core of CT and outer case) |
| Affection of magnetic field | : 3mA or less (at 100A nearby conductor) |
| Limitation of circuit voltage | : Less than AC 600V |
| Operating temperature | : 0°C to 40°C, 80%RH max. (Without condensation) |
| Storage temperature | : -10°C to 60°C, 70%RH max. (Without condensation) |
| Power supply | : 1.5V (AM-4,LR03 or AAA) $\times 3$ or AC adaptor(Option) |
| Power consumption | : 13mA |
| Auto power off | : Approx.10 minutes later after power on |
| Battery life | : Approx.50 hours continuous |
| Size | : 68(W) \times 207(H) \times 33(D)mm |
| Weight | : Approx. 430g |
| Accessories | : Hard carrying case.....1 Instruction manual.....1 Batteries.....3 |
| Option | : AC adaptor |

Accuracy (23°C \pm 5°C, 80%RH or less)

| Range | Resolution | Accuracy | Max.input |
|----------|------------|-----------------------------|------------|
| AC 400mA | 0.1mA | $\pm 1.0\%$ rdg ± 8 dgt | AC 300Arms |
| AC 4A | 1mA | | |
| AC 40A | 10mA | | |
| AC 300A | 100mA | $\pm 1\%$ of full scale | |

Harmonics mode

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|----------------------|--|
| Measuring method | : Synchronous filter |
| Measurable harmonics | : Fundamental to 25 th harmonics |
| Minimum input | : More than 5% of full scale in each range |
| Accuracy | : $\pm 1\%$ rdg ± 5 dgt (23°C \pm 5°C) |

Error by neighboring harmonics

| Harmonics | Neighboring harmonics component ratio against current or voltage | Typical accuracy |
|-------------------------------------|--|-----------------------------|
| 5 th | 65% | $\pm 3\%$ rdg ± 5 dgt |
| 7 th | 41% | $\pm 3.5\%$ rdg ± 5 dgt |
| 11 th , 13 th | 20% | $\pm 4\%$ rdg ± 5 dgt |
| 15 th ~25 th | 10% | $\pm 5\%$ rdg ± 5 dgt |