

Digital Harmonics Clamp Tester

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

True rms reading, 40mm ϕ CT

Harmonics Current & Voltage

Model HWT-301 (CE)



FEATURES

- Harmonics and leakage current measurements.
- Up to 25th harmonics current and voltage measurements.
- True rms reading for ACA and ACV.
- Data-hold and Auto power off function.
- Conform to IEC safety requirements.

SPECIFICATIONS

| | |
|--|---|
| Safety standard | : IEC 61010-1, IEC 61010-2-032 ,Installation Category II 600V or Category III 300V. |
| E.M.C. standard | : EN 61326. |
| Measuring method | : Dual slope integration mode |
| AC conversion | : True rms responding |
| Display | : 3.5 digit LCD, max. reading of 3999 |
| Input frequency | : 45Hz~65Hz |
| Affection of magnetic field | : 3mA or less (at 100A nearby conductor) |
| Jaw opening capability | : 40mm ϕ |
| 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 3700V 1 minute max. (Between the core of CT and outer case) |
| 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 |
| Power consumption | : 13mA |
| Auto power off | : Approx.20 minutes later after power on |
| Battery life | : Approx.50 hours continuous |
| Size | : 70(W) \times 223(H) \times 34(D)mm |
| Weight | : Approx. 440g |
| Accessories | : Hard carrying case.....1 Instruction manual.....1 Batteries.....3 |
| | Crest factor : <3 (0~50% of range) |
| Accuracy (23°C \pm 5°C, 80%RH or less) | <2 (50~100% of range) |

| Range | Resolution | Accuracy | Max.input |
|---------------|------------|---|------------|
| AC 400mA | 0.1mA | $\pm 1.0\% \text{ rdg} \pm 8 \text{ dgt}$ | AC 300Arms |
| AC 4A | 1mA | | |
| AC 40A | 10mA | | |
| AC 300A | 100mA | $\pm 1.0\% \text{ rdg} \pm 1\% \text{ of full scale}$ | |
| AC 400mV | 0.1mV | $\pm 1.0\% \text{ rdg} \pm 8 \text{ dgt}$ | AC 250Vrms |
| AC 400V | 100mV | | AC 450Vrms |
| 4000 Ω | 1 Ω | $\pm 1.0\% \text{ rdg} \pm 8 \text{ dgt}$ | AC 400Vrms |

Harmonics mode

| | |
|----------------------|---|
| Measuring method | : Synchronous filter |
| Measurable harmonics | : Fundamental to 25 th harmonics |
| Minimum input | : More than 5% of full scale in each range |

| Harmonics | Accuracy(In case of more than 4 % harmonics is included against fundamental input) |
|---------------------|---|
| 1~9 th | $(\pm 1\% \text{ rdg} \pm 5 \text{ dgt}) \pm (\text{basic accuracy of ACA or ACV}) - (\text{Error by neighboring harmonics})$ |
| 10~19 th | $(\pm 2\% \text{ rdg} \pm 5 \text{ dgt}) \pm (\text{basic accuracy of ACA or ACV}) - (\text{Error by neighboring harmonics})$ |
| 20~25 th | $(\pm 5\% \text{ rdg} \pm 5 \text{ dgt}) \pm (\text{basic accuracy of ACA or ACV}) - (\text{Error by neighboring harmonics})$ |