

MULTI HWT-301

Digital Harmonics Clamp Tester



AC Leakage Current, 400mA/4A/40A/300A
True rms reading, 40mm ϕ CT
Harmonics Current & Voltage

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.
- Confirm 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°C80%RH or less) <2(50 ~100% of range)

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

Harmonics mode

Measuring method	: Synchronous filter
Measurable harmonics	: Fundamental to 25th 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)
1~9th	(\pm 1%rdg \pm 5 dgt) \pm (basic accuracy of ACA or ACV) – (Error by neighboring harmonics)
10~19th	(\pm 2%rdg \pm 5 dgt) \pm (basic accuracy of ACA or ACV) – (Error by neighboring harmonics)
20~25th	(\pm 5%rdg \pm 5 dgt) \pm (basic accuracy of ACA or ACV) – (Error by neighboring harmonics)