LEAKAGE CLAMP METER FOR ARRESTER

Model ALCL-40/ALCL-40L



Model ALCL-40L



GENERAL

This model ALCL-40 mainly measures very small leakage current of grounding line connected with Arrester, etc. The CT which is applied to this model is hardly affected by external magnetic field and therefore, model ALCL-40 can measure leakage current very accurately in high magnetic and electric field.

SPECIFICATIONS

1) CT Sensor

Inside Diameter of CT: 40mm

Structure : Apart from Measuring Part

2) Measuring Part

Measuring Function: Leakage Current, Harmonic

Current (Dominant & Third Wave)

Measuring Method : CT Clamp-on Method

Measuring Range : 0-300μA/3mA/30mA (3range manual) Input Frequency : 45-60Hz (Dominant Wave Frequency)

AC Conversion
A/D Conversion
Display
Sampling Rate
Over Indication
Data Hold Function
SAMS Detection Method
Double Integration Method
Touble Integra

Auto Power Off : Approx.10 minutes after power on Other Function : Motor Drive Switch for CT open/close

3) General Specs.

Power Supply : AA size Alkaline battery \times 4 Operating Circuit Voltage : Less than 500V AC Operating Temperature : $0\sim$ 40°C, less than 80%RH,

w/o condensation

Storage Temperature: -10~60°C, less than 70%RH,

w/o condensation

4) Accuracy (23°C)5°C, less than 80%RH)

4-1 AC Current

Range	Resolution	Accuracy(45~65Hz)	Max.Applicable Current
300μΑ	100nA(0.1μA)		40A rms
3mA	1μA(0.001mA)	1.2%±8digit	
30mA	10µA(0.01mA)		

AC Conversion : RMS Detection Method Crest Factor : <3 (0 \sim 50% of the range) <2 (50 \sim 100% of the range)

4-2 Harmonic Current(Dominant Current, 3rd Harmonic Current)

Detection Method : Automatic Tuned Filter

Min. Dominant Current Input: more than 3% of each range

Accuracy : $(1\%\pm5\text{digit})\pm(\text{AC Current Accuracy})$ – (Tolerance influenced by

adjacent frequency)

* In case that the harmonic current is more than 4% of the dominant wave Tolerance influenced by adjacent frequency: 1.5%