

LEAKAGE CLAMP METER FOR ARRESTER

Model **ALCL-40/ALCL-40L**



Model ALCL-40L



Model ALCL-40

GENERAL

This model ALCL-40 mainly measures very small leakage current of grounding line connected with Arrestor, 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 : 0-300 μ A/3mA/30mA (3range manual)
Input Frequency : 45-60Hz (Dominant Wave Frequency)
AC Conversion : RMS Detection Method
A/D Conversion : Double Integration Method
Display : 3200 count max.,LCD
Sampling Rate : 2 times/second
Over Indication : "OL" on the display
Low Battery Indication : "B" sign on the display
Data Hold Function : "DH" sign on the display
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 : 0~40 $^{\circ}$ C, less than 80%RH, w/o condensation
Storage Temperature: -10~60 $^{\circ}$ C, less than 70%RH, w/o condensation
- 4) Accuracy (23 $^{\circ}$ C)5 $^{\circ}$ C, less than 80%RH

4-1 AC Current

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

- AC Conversion : RMS Detection Method
Crest Factor : <3 (0~50% of the range)
<2 (50~100% 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% \pm 5digit) \pm (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%