

LEAKAGE CLAMP METER FOR ARRESTER

MODEL ALCL-40L / ALCL-40

- DIAGNOSTIC INDICATOR OF OXIDE SURGE ARRESTERS IN SERVICE
- ACCORDING TO IEC60999-5
- EASY, FAST, OPERATION
- JUST CLAMP ON TO THE GROUNDING EARTH OF ARRESTERS
- SAFTY DESIGN (Model ALCL-40L)
MOTOR OPERATED OPENING/CLOSING CT JAW
EXTENTION ABS AND GLASS FIBER ROD (MAX, 2680mm LONG)
- MEASUREMENT
TRUE RMS LEKAGE CURRNT
DOMNANT AND THIRD HARMONIC CURRNT

1.GENERAL

This model ALCL-40L / -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-40L / -40 can measure leakage current very accurately in high magnetic and electric field



(ALCL-40L)

2.SPECIFICATIONS

1) CT Sensor

Inside Diameter of CT : 37mm

Structure : Apart from Measuring Part

2) Measuring Part

Measuring Function : Leakage Current, Harmonic Current(Dominant & Third)

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 (ALCL-40L)

3) General Specs.

Power Supply : AA size Alkaline battery x 4

Power Consumption : Approx.20mW

Operating Circuit Voltage : Less than 500V AC

Operating Temperature : 0-50 $^{\circ}$ C, less than 80%RH, w/o condensation

Storage Temperature : -10~60 $^{\circ}$ C, less than 70%RH, w/o condensation

4) Accuracy (23? ± 5? , less than 80%RH)

4-1 AC Current

Range	Resolution	Accuracy(45~ 65Hz)	Max.Applicable Current
300μ A	100nA(0.1μ A)	1.2% ± 8digit	40A rms
3mA	1μ A(0.001mA)		
30mA	10μ 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%± 5digit)± (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%

(Influence of External Magnetic Field: Less than 10μ A nearby 400A turns)

MOTOR OPERATED OPENING/CLOSEING CT JAW(ALCL-40L)



Dimensions & Weight : 160(W)× 950(H)× 84(D) (when retracted), Approx.2600gs
 160(W)× 2680(H)× 84(D) (when extended)

LCD DISPLAY (ALCL-40L)

MODEL ALCL-40



Dimensions & Weight : CT Part 135(W)× 166(H)× 61(D)mm
 Approx. 1000gs
 Display Part 95(W)× 160(H)× 34(D)mm
 Approx. 260gs