MULTI
Let's Create New Concepts of Instruments

DATA SHEET

MCL-500IRVX Resistive Leakage Current Clamp Meter with single PQA function

+Can be used to check RCDs installed on equipment.
+Easily check the single-phase current transformation ratio and voltage transformation ratio in combination with HCL-36XPF and MCV-36X1 via Bluetooth.

Specification

Measurement	AC RMS leakage current, resistive leakage current, harmonic current, load current, AC voltage, insulation resistance(live line), phase angle, power factor, active power, reactive power, apparent power
Range switchover	Current:50m/500m/5/50/500A 5range manual, Voltage:AC 500V 1range , Insulation resistance:10 MΩ 1range
Frequency range	50~60Hz
Current resolution	Peak hold ON: Range: Res 0.1mA / 1mA / 0.01A / 0.1A / 1A; Peak hold OFF: Range: Res 0.01mA / 0.1mA / 0.001A / 0.01A / 0.1A
Other resolution	Voltage: Peak hold ON: 1V, Peak hold OFF: 0.1V; Insulation resistance:0.001 kΩ
Current accuracy	Peak hold ON: ±1%rdg ±10dgt(50mA~50A) ±1%rdg ±1%FS(500A); Peak hold OFF: ±0.5%rdg ±5dgt(50mA~50A) ±1%rdg ±1%FS(500A)
Other accuracy	Voltage: Peak hold ON: ±1.0%rdg ±8dgt; Peak hold OFF: ±0.5%rdg ±5dgt; Insulation resistance: Calculated from measured value of voltage and resistive current Phase angle, power factor, active power, reactive power, apparent power, harmonics: Calculated using a formula based on current and voltage values, etc.
A/D conversion	Integral
Sample rate	2 time/1s
Withstanding voltage	AC2kV/1min
Operating circuit voltage	Less than 500V (on the isolated wire)
Operating temperature	0～50°C for the alkaline battery, RH 85%(w/o condensation)
CT type	40mm with split core type ZCT
Power supply	LR3(alkaline)*3ea
Auto power off	Approximately 10 min after power on(This function is disabled when Bluetooth communication is being used)
Indication on LCD	Overrange voltage and Low battery voltage: Displayed the Battery mark on LCD
Weight	440g
Size	70*223*34mm
Filter function	Press Filter/V input switch once during “I” “Io” current measurement, "FL" is displayed on the LCD and high frequencies are cut off. Press again to cancel it function. The filter function is disabled during resistive leakage current measurement.
Hold functions	Peak hold: When the peak hold switch is pressed, "MAX" appears on the display and the display resolution automatically be reduced by one digit, which is different from normal measurement. The instrument enters peak hold mode. It will display peak current. Data hold: Press data hold switch , “DH” will appear on the display. Press data hold switch again to cancel this function.
Application Examples	