

# 50A & 100A True RMS AC Harmonics/Leakage Testers

**Leakage current measurement and Harmonic Analysis to the 99th order**

With Programmable CT ratio (1 to 250)

## Features:

- High current resolution to 10 $\mu$ A
- Voltage and Current Harmonic Analysis in percentage (%) and magnitude
- Switchable 50/60Hz fundamental frequency
- Fast peak function (39 $\mu$ s for 50Hz, 33 $\mu$ s for 60Hz)
- Total Harmonic Distortion (%THD-F) and Crest Factor (CF)
- Jaw size 1.2" (30mm)
- Max/Min and Data Hold
- Auto power off saves battery life
- Complete with test leads, 2 AA batteries, and carrying case

## Model 382035 Additional Features

- Shielded jaw for high immunity to external interference

## Model 382045 Additional Features

- Active (W, kW,HP), reactive (VAR, kVAR), and apparent (VA, kVA) power
- Power factor (PF), phase angle (f), and energy (mWH, WH, kWh)
- 3-phase sequence measurement



Function	Range	Max. Resolution	382035 Basic Accuracy	382045 Basic Accuracy
AC Current	0.50mA to 50.00A (382035)			
	0.50mA to 100A (382045)	0.01mA	$\pm 0.5\%$	$\pm 0.5\%$
AC Voltage	5-600V	0.1V	$\pm 0.5\%$	$\pm 0.5\%$
Harmonics (Voltage %)	1-99th	0.1%	$\pm 1\%$ (1 to 10th)	$\pm 0.2\%$ (1 to 10th)
Harmonics (Voltage)	1-99th	0.1V	$\pm 1\%$ (1 to 10th)	$\pm 0.2\%$ (1 to 10th)
Harmonics (Current %)	1-99th	0.1%	$\pm 1\%$ (1 to 10th)	$\pm 0.2\%$ (1 to 10th)
Harmonics (Current)	1-99th	0.01mA	$\pm 1\%$ (1 to 10th)	$\pm 0.7\%$ (1 to 10th)
Total Harmonic Distortion	0.0-999.9%	0.1%	$\pm 2\%$	$\pm 2\%$
Crest Factor	1.00-99.99	0.01	$\pm(5\% \text{ rdg} \pm 30 \text{ digits})$	$\pm 5\%$
AC Watts (0-60A)	0.050W to 9999kW	0.001W	—	$\pm 2\%$
AC Watts (60-100A)	0.050W to 9999kW	0.001W	—	$\pm 2\%$
Apparent Power (VA)	0.000VA-9999kVA	0.001VA	—	VA=V rms x A rms
Reactive Power (VAR)	0.000VAR-9999kVAR	0.001VAR	—	VAR= $\text{sqr}(\text{VA}^2 - \text{W}^2)$
Energy (mWH, WH, kWh)	0mWH-999.999kWH	1mWH	—	WH=W*Time (in hours)
Horse Power (HP)	13kHP	1HP	—	1HP=746W
Power Factor	0.000-1.000	0.001	—	$\pm 0.04$
Phase Angle	-180° to 180°/0° to 360°	0.1°	—	$\pm 2^\circ$
Dims/Wt	8.3x2.5x1.4 (210x62x35.6mm)/ 7oz (200g)			

## Ordering Information:

382035 .....50A Harmonics/Leakage Tester

382045 .....100A Power Harmonics/Leakage Tester

