

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

Leakage current measurement and Harmonic Analysis to the 99th order

**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)
- Programmable CT ratio (1 to 250)
- 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 ( $\phi$ ), and energy (mWH, WH, kWh)
- 3-phase sequence measurement

**Ordering Information:****382035** ..50A Harmonics/Leakage Tester**382045** ..100A Power Harmonics/Leakage Tester**CAT II - 600V**  
**CAT III - 300V**

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 %)	1-99 <sup>th</sup>	0.1%	$\pm 1\%$ (1 to 10 <sup>th</sup> )	$\pm 0.2\%$ (1 to 10 <sup>th</sup> )
Harmonics (Voltage)	1-99 <sup>th</sup>	0.1V	$\pm 1\%$ (1 to 10 <sup>th</sup> )	$\pm 0.2\%$ (1 to 10 <sup>th</sup> )
Harmonics (Current %)	1-99 <sup>th</sup>	0.1V	$\pm 1\%$ (1 to 10 <sup>th</sup> )	$\pm 0.2\%$ (1 to 10 <sup>th</sup> )
Harmonics (Current)	1-99 <sup>th</sup>	0.01mA	$\pm 1\%$ (1 to 10 <sup>th</sup> )	$\pm 0.7\%$ (1 to 10 <sup>th</sup> )
Total Harmonic Distortion	0.0-99.9%	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= $\sqrt{\text{VA}^2 - \text{W}^2}$
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)			

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Phone: 781-890-7440 • FAX 781-890-7864**ISO 9001:2000 CERTIFIED****"Make mine an Extech!"™**  
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