Power Clamp Meters
LH1050/1060

- **AC and DC clamp on current measurement up to 1000A**

- **W, VA, VAR and power factor measurement, even for distorted waveforms**

- **Built in 3 phase power capability for balanced loads**

- **TRMS and Frequency measurement for current and voltage**

- **Bargraph and digital display for dual parameters**

- **External data logging to a PC**

- **Min, max average recording and complete data set memory**

- **IEC1010 Cat III 600 V for enhanced safety in hazardous voltage areas**

- **EMC hardened for power electronics applications**

- **EL Backlight for improved visibility**

Additional Features LH1060

- **Measurement of Peak Voltage and Current Values**

- **Measurement of THD, Distortion Factor, Crest Factor and DC Ripple**

- **Digital waveform output for harmonics analysis with WinLog interface and software**

The LH Series Power Clamps ensure accurate ac/dc power measurements for single phase and balanced three phase systems even with distorted waveforms. The advanced design includes a Smart Hold facility for saving a complete set of power readings and a digital output for data logging to a PC. The LH1060 provides additional power quality measurements.

| SPECIFICATIONS						
	AMPS	VOLTS	WATTS	VA	PF	Hz
Ranges (auto-ranging)	40 A 400 A 1000 A	400 V, 600 V	4 kW, 40 kW, 400 kW, 600 kW	4 kVA, 40 kVA, 400 kVA, 600 kVA	0.3 cap to 0,3 ind.	10Hz to 1kHz
Resolution	0.01 A 0.1 A 1 A	0.1 V 1 V	1 W, 10 W, 100 W, 1 kW	1 VA, 10 VA, 100 VA, 1 kVA	0.01	0.1Hz
Accuracy	± 1.5% rdg, ± 5 dgt.	± 1.5% rdg, ± 5 dgt.	± 2.5% rdg, ± 5 dgt.	± 2.5% rdg, ± 5 dgt.	± 3°	40-70Hz±0.5 % 20-1kHz±1 %
Max. Measurement	1000A AC Pk 1000A DC	600V RMS 600V DC	1200kW	1200kVA	-	1,000Hz
Max. overload	10,000A	1,000V Pk	10,000kW	10,000kVA	-	10,000A 1,000V Pk

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LOGGING

WinLog PC software and interface enables data logging of up to 5 parameters simultaneously and the capability to record waveforms for harmonics analysis (LH1060).

Available data

LH1050/1060: V, A, Hz + RMS value, W + VA + VAR + PF
LH1060: Waveform + RMS-value, Peak+THD+DF+CF+Ripple.

DISPLAY

Size and type: 4000-count LCD+25 segment bargraph 9.5 mm/0.375-inch characters
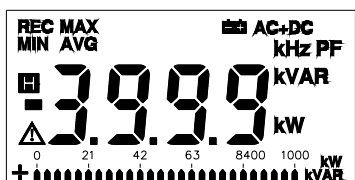
POWER SUPPLY

Battery Type	9V Alkaline: MN1604, PP3 IEC 6LR61 or equivalent
Battery Life	Typically 12 hrs.

Notes:

All accuracies stated at ± 23°C ± 1°C (73.4 ± 1.9 °F)

MECHANICAL DATA

Dimensions (H x W x D):	251 x 98 x 52 mm 9.88 x 3.86 x 2.05 inches
Weight:	500 gm/1.1 lbs
Jaw Capacity:	1 x 50 mm/2.0-inch ∅ cables or 2 x 30mm/1.2-inch ∅ cables
Jaw Opening:	52mm/2.2 inches

ENVIRONMENTAL DATA

Operating Temperature:	0 ^{o}C to 50 ^{o}C (40°F to 122°F)
Termperature Coefficient (Current)	±0.1 % of reading per °C
	±0.06 % of reading per °F
Storage Temperature:	-20°C to +60°C (-4°F to 140°F)

SAFETY

All models comply with IEC1010-1, 600 V working, installation category III, Pollution degree 2.

MAXIMUM SAFE VOLTAGES

Current measurement (bare conductors)	600V AC RMS or DC between uninsulated conductor & ground
Voltage measurement	600V AC RMS or DC between input terminals or between live terminal & local ground.

WinLog is an easy to use PC software and interface package for data logging applications with the LEM Power Clamps and HEME ISO Series insulation testers. The software can be used to continually log the electrical measurement displayed on the instrument or to download stored data from the Analyst and ISO2000 to a PC for further analysis.

- Easy to use Windows format allowing the display of multiple parameters in instrument mimic, table and chart formats.

- Simultaneous logging of multiple parameters

- Waveform, Harmonics* and stored data download from the Analyst

- Harmonics analysis of waveforms with the Analyst and LH1060

Simple data export to other applications

*Analyst 2060 only

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In June 2005 Fluke Corporation acquired LEM Instruments.

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