

AC/DC Clamp-on Multimeters

Accurate, Rugged, Versatile and Reliable

- *LH630 - 600A AC, 1000A DC*
- *LH635 - True RMS 600A AC, 1000A DC*
- *LH1035 - True RMS 1000A AC, 1500A DC*
- *AC and DC Amps, Volts, Ohms, Diode and Continuity Test*
- *Two jaw sizes*
LH630/35 - for cables up to 35mm Ø
LH1035 - for cables up to 50mm Ø
- *Autoranging and Auto-zeroing*
- *Display-Hold for convenience in use*
- *Conformance to IEC1010 and EMC standards*

Additional features LH635/ LH1035

- *True RMS measurement of distorted or non-sinusoidal AC waveforms*
- *Max-Hold mode displays highest measured value*

High Accuracy

Advanced jaw design means that 30-series accuracy is little affected by external magnetic fields or off-centre conductor positioning. Utilisation of Hall effect technology ensures a broad flat frequency response resulting in optimum accuracy even when harmonics are present.

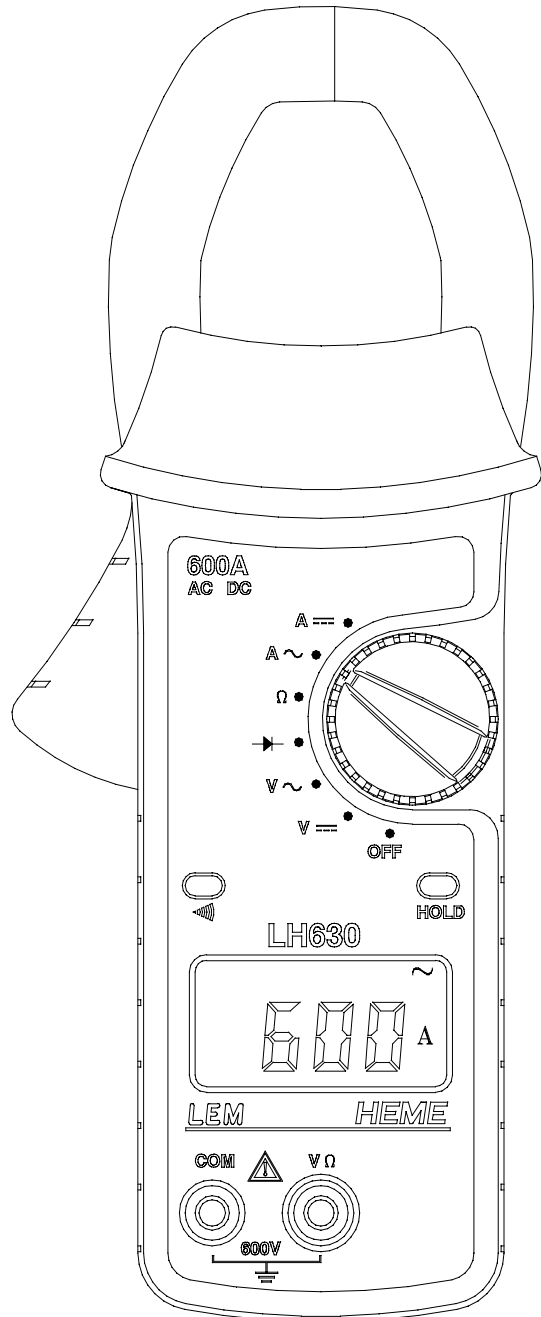
IEC 1010 and EMC conformance

IEC 1010 safety features including a tactile barrier and special jaw design provide the user with confidence when making measurements in hazardous voltage areas.

Conformance to EMC standards ensures high reliability through reduced susceptibility to electromagnetic interference.

True RMS measurement

By using True RMS measurement techniques the LH635 and LH1035 give maximum accuracy for non-sinusoidal waveform measurements often found with today's complex loads.



S P E C I F I C A T I O N S

MODEL	LH630	LH635	LH1035
NON-INVASIVE CURRENT MEASUREMENT			
Ranges (auto-ranging)	400A, 1000A		400A, 1500A
Method	DC or AC RMS-responding	AC True RMS, or DC Only	
Resolution	100mA (400A range) 1 A (1000A/ 1500A range)		
Accuracy	± 1.3% of reading ± 3 digits (1)		± 1.9% of reading ± 3 digits (1)
Crest Factor		6 maximum for True RMS measurements	
Maximum measurable load	600A AC RMS, 1000A DC		1000A AC RMS 1500A DC
Maximum permissible overload	10,000 Amps		
VOLTAGE MEASUREMENT			
Method	DC or AC RMS-responding	AC True RMS or DC only	

VOLTAGE MEASUREMENT

Ranges (auto-ranging)	400V, 600V
Maximum overload	1,000V
Accuracy	± 1% of reading ± 3 digits (1)
Resolution	100mV (400V range); 1V (600V range)
Crest Factor	6 for V < 1,000 V peak
Input impedance	1MΩ

RESISTANCE, CONTINUITY AND DIODE TESTING

Ω ranges (auto-ranging)	400 Ω, 4 kΩ
Ω resolution	0.1 Ω (400 Ω range), 1 Ω (4 kΩ range)
Ω accuracy	± 1% of reading ± 3 digits (1)
Continuity sounder	Toggled on & off by))) button;
(Ω range only)	Sounds when resistance < 50 Ω
Input protection, Ω & diode-test	To 600 V, DC or sinewave RMS
Diode test 3.2V max. open circuit, 0.3mA short-circuit	Reads forward-biased diode voltage to 2,000 mV
Diode-test accuracy	± 1% of reading ± 2 digits (1)

FREQUENCY RESPONSE

AC only V and A	LH630 15 Hz - 400 Hz LH635/1035 15 Hz - 1kHz (2,3)
DC V and A	DC only

DISPLAY

Size and type	4000-count LCD 12mm / 0.5-inch characters
Status indication (as appropriate to model)	Low Battery, Data Hold, Pk (MAX Hold) (4), AC, DC, Diode Test, Ω,))) (Continuity)
Refresh rate	3 times per second

POWER SUPPLY

Battery type	9 V Alkaline: MN1604, PP3, IEC 6LR61 or equivalent
Battery life (LH635)	Typically 40 hours

MECHANICAL DATA

Dimensions (H x W x D);	LH630/35 - 230 x 98 x 52 mm LH1035 - 251 x 98 x 52 mm LH630/35 - 9.05 x 3.86 x 2.05 inch LH1035 - 9.88 x 3.86 x 2.05 inch
Weight	500 gm / 1.1 lbs
Jaw Capacity	LH630/35 - 1 x 35mm / 1.38-inch Ø LH1035 - 1 x 50mm / 2.0-inch Ø
Jaw Opening	LH630/35 - 40mm / 1.57 inch LH1035 - 55mm / 2.2 inch

ENVIRONMENTAL DATA

Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)
Temperature Coefficient (Current)	± 0.1 % of reading per °C ± 0.06 % of reading per °F
Storage Temperature	-20° to 60° (-4 °F to 140 °F)

SAFETY

All models comply with IEC1010-1, 600V 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

Notes:

1. All accuracies stated at 23°C ± 1 °C (73.4 ± 1.8 °F)
2. At stated accuracy; extend to 5 kHz for -3dB.
3. True RMS measurements taken over 100 ms
4. LH635, LH1035 only

LEM

The LEM group offer a wide range of non-invasive transducers, probes and instrumentation for the measurement and analysis of current, voltage and power.

Since the introduction of the world's first digital AC/DC clamp-on ammeter in 1982, LEM HEME has continued to provide innovative test and measurement solutions encompassing current measurement from 5mA to 2,000A

Distributor



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