

AC/DC Clamp-on Multimeters LH30 Series

- LH630 600 A AC, 1000 A DC
LH635 True RMS 600 A AC, 1000 A DC
LH1035 True RMS 1000 A AC, 1500 A DC
- AC and DC Amps, Volts, Ohms, Diode and Continuity Test
- Two Jaw sizes
LH630/35 – for cables up to 35 mm Ø
LH1035 – for cables up to 50mmØ
- Auto-ranging 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 gives maximum accuracy for non-sinusoidal waveform measurements often found with today's complex loads.

SPECIFICATION			
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) 1A (1000A/1500A range)		
Accuracy	± 1.3 % of reading ± 3 digits (1)		± 1.9 % ± 3 digits (1)
Crest Factor	6 maximum for True RMS measurements		
Maximum measurable load	600A AC RMS 1000A DC		1000 A AC RMS 1500 A 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	1 MΩ

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 (Ω range only)	Toggled on & off by))) button; Sounds when resistance < 50Ω
Input protection, Ω & diode test	To 600 V, DC or sine wave 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 to 400 Hz LH635 /1035 15 Hz to 1 kHz (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	Typically 40 hours

Mechanical Data:

LH630/35

Dimensions (H x W x D):	230 x 98 x 52 mm 9.05 x 3.86 x 2.05 inches
Weight:	450 gm / 1 lbs
Jaw Capacity:	1 x 35 mm/ 1.38-inch Ø cables

LH1035

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 lbs
Jaw Capacity:	1 x 50 mm/ 2.0-inch Ø cable

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.

LEM

LEM offers a comprehensive range of electrical test products to ensure the safe and efficient operation of electrical equipment and installations. Other products from the LEM group includes systems and analysers for power quality and power quality monitoring and transducers for current and voltage measurement. LEM provides complete measurement solutions in current, voltage and power quality.

Notes:

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



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