LH1020, LH1025

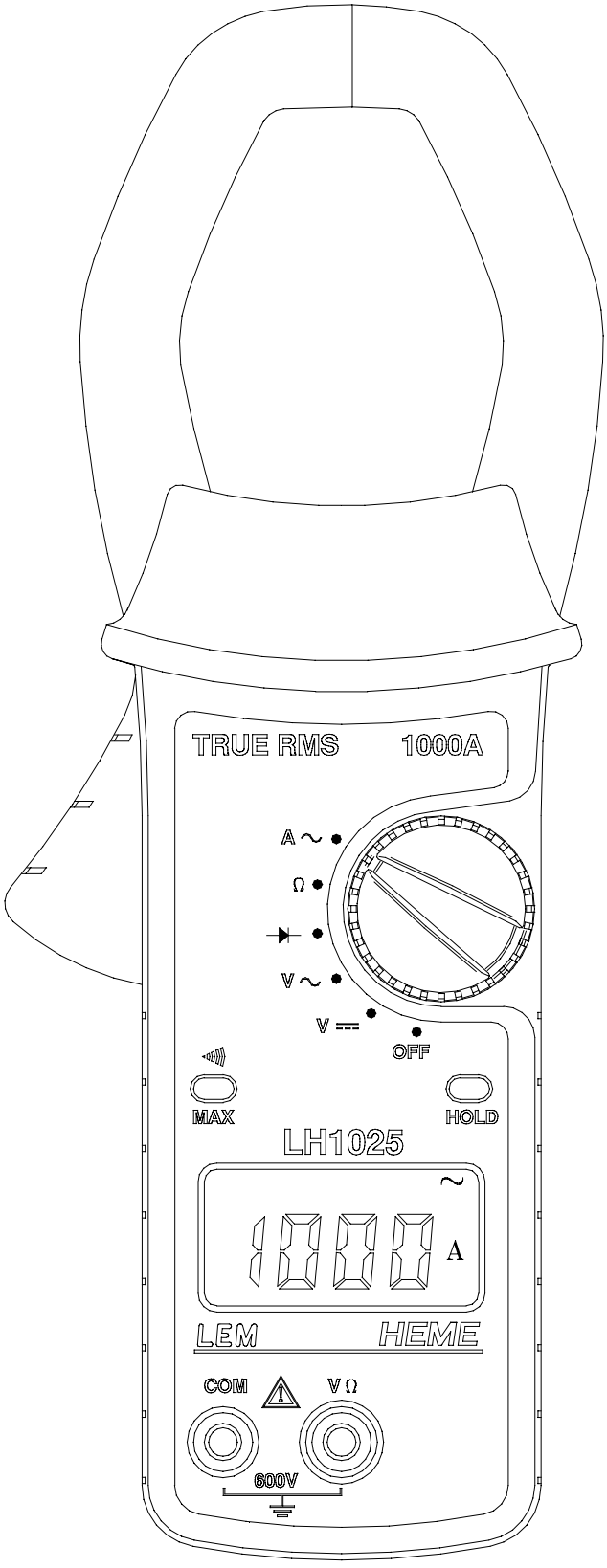
AC Clamp-on Multimeters for Professional Use

Accurate, Rugged, Versatile and Reliable

- ***Two models: 1,000A AC and 1,000A AC True RMS***
- ***AC Amps, AC and DC Volts, Ohms, Continuity and Diode Test***
- ***Large jaw takes 50mm ∅ or 2 x 30mm ∅ cables***
- ***Autoranging and Auto-zeroing***
- ***Conformance to IEC1010 and EMC standards***
- ***Display-Hold for convenience in use***

Additional features on the LH1025:

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



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.

High Accuracy

The advanced jaw design incorporates features which result in these instruments having excellent measurement performance under a wide range of operating conditions.

True RMS measurement (LH1025)

By using True RMS measurement techniques the LH1025 gives maximum accuracy for non-sinusoidal waveform measurements often found with today's complex loads.

SPECIFICATIONS

MODEL	LH1020	LH1025
NON-INVASIVE CURRENT MEASUREMENT		
Ranges (auto-ranging)	400A, 1,000A	400A, 1,000A
Measurement methods	AC RMS responding	AC True RMS
Resolution	100mA (400A range) 1A (1,000A range)	100mA (400A range) 1A (1,000A range)
Basic Accuracy	10 - 700A, 50-60Hz, ± 1.5% of reading ± 5 digits (1)	
Crest Factor		4 maximum for True RMS
Maximum measurable load	1,000A AC RMS	
Maximum permissible overload	1,200 Amps RMS	
VOLTAGE MEASUREMENT		
Methods	AC RMS responding, DC	AC True RMS (2), DC
OTHER FEATURES		
Diode test	●	●
Max hold		●

VOLTAGE MEASUREMENT (continued)	
Ranges (auto-ranging)	400V, 600V AC & DC
Maximum overload	1,000V
Accuracy	± 1% of reading ± 3 digits (1)
Resolution	100mV (400V range); 1V (600V range)
Crest Factor	4 for V < 1,000 V peak
Input impedance	1MΩ
RESISTANCE, CONTINUITY AND DIODE TESTING	
Ω ranges (auto-ranging)	400 Ω, 4 kΩ
Ω resolution	0.1Ω (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 < 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
FREQUENCY RESPONSE	
AC A and AC V (LH1020)	50 Hz - 400Hz
True RMS AC V (LH1025)	15Hz - 1kHz
DC V	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), 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 60 hours

MECHANICAL DATA	
Dimensions (H x W x D);	260 x 98 x 52 mm 10.25 x 3.86 x 2.05 inches
Weight	520 gm / 1.4 lbs
Jaw Capacity	1 x 50mm / 2.0-inch ∅ cable or 2 x 30mm / 1.2-inch ∅ cables
Jaw Opening	52mm / 2.05 inches
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 lll, 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. True RMS measurements taken over 100 ms.

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

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