

# Clamp-on Ammeters LH10 Series

- AC and DC clamp on current measurement up to 1000A
- Compact lightweight design
- Autoranging  
LH41 - 4A/40A  
LH410 - 40A/400A  
LH1010 - 400A/1000A
- Excellent accuracy
- Display-Hold for convenience in use
- Conformance to IEC1010 and EMC standards
- Low battery indicator

## Additional Features LH41

- DC Auto Zero
- 1 mA Resolution
- Auto Power off



## High Accuracy

Advanced jaw design means that the 10-series accuracy is little affected by external magnetic fields and ensures stable zeroing characteristics for DC measurements.

## Compact Design

The 10-Series are pocket sized and allow easy access to small spaces and difficult to reach conductors.

## 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.

SPECIFICATIONS			
MODEL	LH1010	LH410	LH41
<b>NON-INVASIVE CURRENT MEASUREMENT</b>			
Ranges (auto-ranging)	400A, 1000A	40A, 400A	4A, 40A
Measurement Methods	AC RMS responding or DC		
Resolution	100mA (400A range) 1A (1,000A range)	10mA (40A range) 100mA (400A range)	1mA (4A range) 10mA (40A range)
Basic Accuracy	± 1.3% of reading ± 5 digits	± 1.3% of reading ± 8 digits	± 1.3% of reading ± 5 digits
Maximum measurable load	1,000A DC or AC peak	400A DC or AC peak	40A DC or AC peak
Maximum overload	10,000 Amps		150 Amps

## FREQUENCY RESPONSE

AC A 40Hz - 400Hz  
DC A DC only

## DISPLAY

Size and type 4000-count LCD  
10mm/0.4-inch characters  
Status indication Low Battery, Polarity  
Refresh rate 3 times per second

## POWER SUPPLY

Battery type 9V Alkaline: MN1604, PP3.  
IEC 6LR61 or equivalent  
Battery life LH1010/  
410 Typically 50 hours  
LH41 Typically 15 hours  
dependent on duty  
cycle

## MECHANICAL DATA

Dimensions (H x W x D) LH1010 196 x 71 x 31mm  
7.71 x 2.80 x 1.22 inch  
LH410/41 184 x 71 x 31mm  
7.24 x 2.80 x 1.22 inch  
Weight LH1010 295 gm/0.65lbs  
LH410/41 235 gm/0.52lbs  
Jaw Capacity LH1010 1 x 30mm/1.18 inch  $\varnothing$   
cable  
LH410/41 1 x 19mm/0.75inch  $\varnothing$   
cable

## ENVIRONMENTAL DATA

Operating Temperature 0°C to 50°C (32°F to 122°F)  
Temperature Coefficient  
(excluding offset) LH1010/  
410  $\pm 0.15\%$  of reading per °C  
 $\pm 0.1$  of reading per °F  
LH41  $\pm 0.05\%$  of reading per °C  
 $\pm 0.03$  of reading per °F  
Storage Temperature  
(without battery) -20°C to 60°C (-4°F to 140°F)

## SAFETY

All models comply with IEC 1010-1, 300V working  
Installation category III, Pollution degree 2.

## MAXIMUM SAFE VOLTAGE

Current measurement  
(bare conductors) 300V AC RMS or DC between  
uninsulated conductor & ground

## Notes

All accuracies stated at 23°C  $\pm 1$ °C (73.4  $\pm 1.8$ °F)

## 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.



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