

Technical Specifications for AC/DC Clamp meter.

A: SPECIFICATION:

Meter should measure:

- Meter should be measuring the AC current up to 3000A with flexible clamp.
- Flexible clamp dia should be 160mm.
- DC current measurement and AC current.
- AC/DC voltage measurement up to 1000V.
- Resistance measurement and continuity test:
 - continuity test with acoustic signalling (beeper)
- Temperature measurement (Fahrenheit and Celsius units).
- Frequency measurement.
- Capacitance measurement.
- Diode test.
- Duty Cycle
- Should have Bluetooth function

Additionally:

- safe, insulated measuring clamps,
- double moulded housing,
- Min/Max measurement
- auto ranging/manual range selection, "DATA HOLD" function, for holding measured values,
- backlit LCD,
- "REL" function,
- over range indication,
- "AUTO-OFF" function.
- Flash light function
- Non contact voltage detector

Features	Specification
Measurement category, Protection	CAT IV 600V, IP40
Clamp dimension	160mm
Current DC	0 - 1000A
Accuracy	±(2.5% m.v. + 5 digits)
Resolution	0.1 A
Current AC (TRMS)	0 - 3000A
Accuracy	±(2.8% m.v. + 8 digits)
Resolution	0.1 A
Voltage DC	0 - 1000V
Accuracy	±(0.1% m.v. + 4 digits)
Resolution	0.01 mv

Voltage AC (TRMS)	0 - 1000V
Accuracy	±(1.0% m.v. + 9 digits)
Resolution	0.01 mv
Resistance	0 - 50 MΩ
Accuracy	±(1.0% m.v. + 4 digits)
Resolution	0.01 Ω
Frequency	0 - 10 MHz
Accuracy	±(0.3% m.v. + 2 digits)
Resolution	0.001 Hz
Temperature	-100.0...+1000°C
Accuracy	±(1.0% m.v. + 2°C)
Resolution	0.1°C
Capacitance	5000.0 μF
Accuracy	±(3.5% mv + 9 digits)
Resolution	0.01 nF
Duty cycle	5...95%
Accuracy	±(1.0% m.v. + 2 digit)
Resolution	0.10%
continuity test	yes
Diode test	yes

Electric security:

- measurement category
- protection class acc. to EN 60529

CAT IV 600V acc. to EN 61010
IP40

Other technical data:

- power supply
- display
- continuity test
- diode test
- over range indication
- sampling rate
- input impedance
- clamp size opening
- auto power OFF
- dimensions
- weight
- accordance with following standards
- quality standard

9V battery type 6LR61
50000 counts, backlit LCD
I<0,5mA, sound signal for R<50Ω
I=0,3mA, U =2.8V DC
OL displayed
2 times per second
10MΩ (V DC and V AC)
160mm
approx. 30 min.
230 x 76 x 40 mm
501 g
EN 61010-1:2004 EN 61010-2-032 EN 61326
ISO 9001

Rated operational conditions:

- operating temperature

+5...+40°C

- | | |
|-----------------------|-------------|
| - storage temperature | -20...+60°C |
| - operating humidity | max 80% |
| - operating altitude | max 2000 m |

B: SERVICE AFTER SALE:

Bidder will have to submit the documentary evidence of having established mechanism for prompt services as & when required.