

Power Clamp Meter



FEATURES

- 6000 Count Digital Display
- 3 5/6 Large Scale Digit Readout
- AC+DC True RMS Measuring
- Auto AC/DC Detection
- Data Hold
- Min Max Function
- Peak Hold
- Inrush Current Measurement
- DCA Zeroing
- Frequency Counter
- Power and Power Factor Measurement
- Total Harmonic Distortion
- Phase Rotation
- Temperature Measurement
- Capacitance
- Audible Continuity and Diode Test
- Backlight
- Automatic Power Shut off
- Shock Proof from 4 Feet Drops
- Standard Full-sleeve Safety Test Leads
- Deluxe Carrying Case

APLAB-APPAA18+ is ergonomically slim shaped designed for single hand operation. It is a versatile tool for electrical & electronics engineer for accurate measurements with capability to measure DC value of current, voltages along with AC measurements and total harmonic distortion (THD) to measure the quality of power. It is also useful in power factor & power measurements in 1Ø or 3Ø power lines. Two A18+ meters will make the phase identification possible to detect the phase rotation and also can carry power measurements in 3Ø, 3 wire (Δ) circuits. With three A18+ you can measure power in 3Ø, 4 wire (Y) circuit. Its Auto Power Off feature conserves the battery power. It also measures temperature in $^{\circ}\text{C}$ or $^{\circ}\text{F}$. Backlit LED makes it useful for day/night operation. This meter is protected with high energy fuse.

Technical Specification (All at 23°C ±5°C, 80% R.H.)

ACV

Ranges	: 60V, 600V, 1000V.
Resolution	: 10mV.
Basic Accuracy	: ±(1.0%+5d) at 50Hz ~ 500Hz ± (1.5%+5d).
Input Impedance	: 3 MΩ // <100pF.
Overload Protection	: 1000V rms.
Conversion Type	: Average sensing RMS indicating (AC+DC True-RMS).

DCV

Ranges	: 60V, 600V, 1000V.
Resolution	: 10mV.
Basic Accuracy	: ± (1.0%+5d).
Input Impedance	: 3MΩ.
Overload Protection	: 1000V rms.

ACA

Ranges	: 600.0A.
Resolution	: 0.1A.
Basic Accuracy	: ± (1.5%+5d) at 50Hz ~ 60Hz.
Conversion Type	: Average sensing RMS indicating (AC+DC True-RMS).

DCA

Ranges	: 600A.
Resolution	: 0.1A.
Basic Accuracy	: ± (1.5%+5d).

Watt

Ranges	: 4KW ~ 600KW.
Resolution	: 1W.
Basic Accuracy	: ACA + ACV accuracy.

P.F.

Ranges	: -1.00 ~ 1.00.
Resolution	: 0.01.
Basic Accuracy	: ±3°.

T.H.D.

Ranges	: 0.1% ~ 100.0%.
Resolution	: 0.10%.
Basic Accuracy	: ± (3.0%+10d).

OHM

Ranges	: 600Ω, 6.000KΩ, 20.0KΩ.
Resolution	: 0.1Ω.
Accuracy	: ±(1.0%+5d).

Overload Protection	: 600V rms.
Continuity Beeper	: <30Ω, 2KHz tone buzzer.
Diode Test	: Open circuit voltage : 3V max.

Frequency Counter

Ranges	: 20Hz ~ 4KHz.
Resolution	: 0.1Hz.
Accuracy	: ±(0.1%+5d).
Sensitivity	: 5A rms for ACA (A~). 5V rms to 110V rms for ACV (V~).
Overload Protection	: AC/DC 600A AC/DC 1000A.

Temperature

Ranges	: -50°C ~ 1000°C / -122°F ~ 1832°F.
Resolution	: 0.1°C / 1°F.
Accuracy	: ± (1%+3°C).
Overload Protection	: 600V rms.

GENERAL

Sampling Rate	: 3 times/sec.
Overload Indication	: "OL" or "-OL".
Low Battery Indication	: Yes.
Auto Power Off:	: Approx. 30 minutes.
Operating Temperature	: 0°C ~ 50°C, ≤80% RH.
Storage Temperature	: -20°C ~ 60°C.
Temperature Coefficient	: 0.15 (Spec. Acc)/°C, <18°C or >28°C.
Safety	: IEC 61010 and designed to meet UL3111 specifications CAT III 600V CAT II 1000V.
Maximum Conductor Size	: 35mm dia. (750MCM).
Maximum Jaw Opening	: 45mm.
Maximum Bus bar Size	: 40 x 15mm.
Power Requirement	: Single 9V battery (NEDA 1604 or IEC 6F22).
Battery Life	: 50 Hours.
Size (mm)	: 78 (W) x 235 (L) x 51 (H).
Weight	: 380 grams (with holster).
Accessories Included with instrument	: Test Leads, ZnC battery (installed) manual and carrying case.

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