

ACMM-40

HIGHEST ACCURACY & LOWEST COST



Industrial Multimeter

ACMM-40

Autoranging/manual range selection.

“DATA HOLD” function, for holding measured values.

“REL” function, which allows you to make measurements relative to a stored reference value.

“MAX/MIN” function.

“PEAK HOLD” function.

Memory for 2000 measurement results.

Continuity test with acoustic signaling (beeper).


“AUTO-OFF” function.

Display 4¾ digits (40000 max).

Double molded, waterproof.

amperis

www.amperis.com

 AMPERIS PRODUCTS S.L
Agricultura,34
27003, Lugo, Spain

 Contact

+T [+34] 982 20 99 20 | F [+34] 982 20 99 11
info@amperis.com | www.amperis.com

Industrial multimeter ACMM-40 was designed for the purpose of measurements of AC/DC voltage, AC/DC current, resistance, capacitance, frequency (electrical and electronic), duty cycle, temperature and also for testing diodes and continuity.

Frequency measurement (electronic) (*m.v.*- measured value)

Range	Resolution	Accuracy
40,000 Hz	0,001 Hz	±(0,1% m.v. + 1 digits)
400,00 Hz	0,01 Hz	
4,000 kHz	0,1 Hz	
40,000 kHz	0,001 kHz	
400,00 kHz	0,01 kHz	
4,000 MHz	0,1 kHz	
40,000 MHz	0,001 MHz	
100,00 MHz	0,01 MHz	
10,00 MHz	0,01 MHz	Undefined value

- sensitivity: $\gamma < 100$ kHz, 0,8V RMS (20%-80% duty cycle).
- $\gamma > 100$ kHz, 5V RMS (20%-80% duty cycle).

Frequency measurement (electrical)

Range	Resolution	Accuracy
40,00 Hz...10,00 kHz	0,01 Hz...0,001 kHz	± 0,5% m.v.

- sensitivity: 1V RMS.

Duty cycle measurement

Range	Resolution	Accuracy
0,1...99,9%	0,01%	±(1,2% m.v. + 2 digits)

- pulse width: 100 μ s - 100ms.
- frequency width: 5Hz...150kHz.

Temperature measurement

Range	Resolution	Accuracy*
-50°C...+1200°C	0,1°C	±(1% m.v. + 2,5°C, 4,5°F)
-58°F...+2192°F	0,1°F	

*) probe (K type) accuracy not included.

Resistance measurement

Range	Resolution	Accuracy
400,0 Ω	0,01 Ω	±(0,3% m.v. + 9 digits)
4,000 k Ω	0,0001 k Ω	
40,00 k Ω	0,001 k Ω	±(0,3% m.v. + 4 digits)
400,0 k Ω	0,01 k Ω	
4,000 M Ω	0,0001 M Ω	±(2,0% m.v. + 10 digits)
40,00 M Ω	0,001 M Ω	

DC voltage measurement

Range	Resolution	Accuracy
400,0 mV	0,01 mV	±(0,06% m.v. + 4 digits)
4,000 V	0,0001 V	
40,00 V	0,001 V	
400,0 V	0,01 V	
1000 V	0,1 V	±(0,1% m.v. + 5 digits)

AC voltage measurement (True RMS)

Range	Resolution	Accuracy
400,0 mV	0,01 mV	±(1% m.v. + 40 digits)
4,000 V	0,0001 V	
40,00 V	0,001 V	±(1% m.v. + 30 digits)
400,0 V	0,01 V	
1000 V	0,1 V	

- frequency range: 50...1000Hz.

AC/DC current measurement (True RMS)

Range	Resolution	Accuracy
400,0 μ A	0,01 μ A	CC: ±(1,0% m.v. + 3 digits)
4 000 μ A	0,1 μ A	
40,00 mA	0,001 mA	CA: ±(1,5% m.v. + 30 digits)
400,0 mA	0,01 mA	
10,00 A	0,001 A	

- 20A: 30 sec max with reduced accuracy.

Capacitance measurement

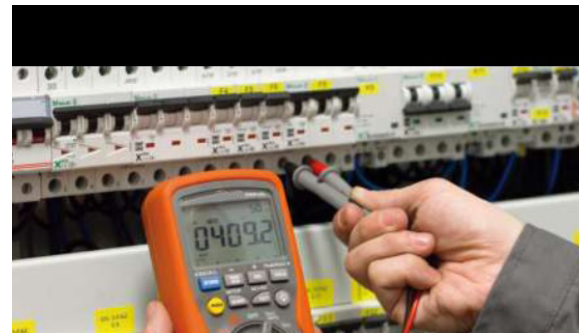
Range	Resolution	Accuracy
40,00 nF	0,001 nF	±(5,0% m.v. + 7 digits)
400,0 nF	0,01 nF	
4,000 μ F	0,0001 μ F	±(3,0% m.v. + 5 digits)
40,00 μ F	0,001 μ F	
4000,00 μ F	0,1 μ F	±(5,0% m.v. + 5 digits)
40,00 mF	0,001 mF	


ACMM-40 Specifications

Electric security:		
Type of insulation	Double, according to EN 61010-1 and IEC 61557	
Measurement category	CAT III 1000V acc. to EN 61010-1:2004	
Protection class acc. to EN 60529	IP67	
Other technical data:		
Power supply	9V battery type 6LR61	
Diode test	I=0,9mA, U =2,8 V DC	
Continuity test	I<0,35mA, sound signal for R<35Ω	
Over range indication	OL displayed	
Crest factor	≤ 3 at full scale up to 500V, decreasing linearly to ≤ 1,5 at 1000V	
Peak	Captures peaks >1ms	
Sampling rate	2 times per second	
Input impedance	10MΩ (V DC); 9MΩ (V AC)	
Display	40000 counts backlit LCD with bargraph, 4% digits	
Memory	2000 results	
Dimensions	187 x 81 x 55 mm	
Weight	approx. 342 g	
Fuses	mA, μA range: 0,5A/1000V ceramic fast blow A range: 10A/1000V ceramic fast blow	
Auto power OFF	15 min	
Accordance with following standards	EN 61010-1:2004 EN 61010-2-032	
Quality standard	ISO 9001	
Rated operational conditions:		
Operating temperature	0...+40°C	
Storage temperature	-20...+60°C	
Operating humidity	max 80% up to 87°F (31°C) decreasing linearly to 50% at 104°F (40°C)	
Operating altitude	max. 2000 m	

Standard accessories:

- Test leads (2 pcs.)
- Battery 9V
- K type temperature probe
- Carrying case
- Waterproof plugs (2 pcs.)
- Operating manual
- 2 years warranty



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