



Technical Data

TRUE  
RMS

CAT III  
600V

CAT IV  
300V

### Key features

- High accuracy measurement
- Auto ranging current measurement
- AC/DC voltage to 600V
- Resistance and continuity test
- Auto power off setting

### Additional features CM57

- True RMS measurement
- Smart sense capacitance to 600 $\mu$ F
- Frequency measurement
- Non-contact voltage detection
- Display backlight

### Additional features CM79

- True RMS measurement
- AC & DC current
- Min / Max readings
- Display backlight

	CM55	CM57	CM79
AC Current	✓	✓	✓
DC Current			✓
AC/DC Volts	✓	✓	✓
True RMS		✓	✓
Ohms and continuity	✓	✓	✓
Smart Sense Capacitance		✓	
Min Max			✓
Backlight		✓	✓

The standard range includes the CM55 AC clamp, the CM57 True RMS AC smart clamp for HVAC applications and the CM79 True RMS clamp for both AC and DC current measurement up to 600A, ideal for solar PV and battery systems. For very low leakage current measurements and troubleshooting nuisance RCD tripping, there is the CM69 which has its own datasheet.

All models combine high performance with reliability and ease of use. Features include a thumb wheel for single handed operation, auto ranging, auto power off, a low battery indicator and a hold function, which is particularly useful when working in areas with restricted access.

The new clamps meet the exacting requirements of electricians and service teams working on both AC and DC systems, from basic AC measurements through to min/max monitoring of start-up and charging currents.

The CM57 includes additional functionality for the non-contact detection of live voltages via its jaw and capacitance and frequency measurement. The elliptical jaw design of all three models makes it easy to make measurements where access is restricted whilst accommodating a wide range of conductor sizes.

FUNCTION	CM55	CM57	CM79
<b>ELECTRICAL</b>			
<b>AC CURRENT</b>			
Current ranges	40.00A/400.0A	60.00A/600.0A	60.00A/600.0A
Accuracy	1.9% ± 3 digits	1.9% ± 5 digits	2.0% ± 5 digits
<b>DC CURRENT</b>			
Current ranges			60.00A/600.0A
Accuracy			2.0% ± 5 digits
<b>AC/DC VOLTAGE</b>			
Voltage range	400.0V/600V	6.000V/60.0V/600V	600.0V
AC accuracy	1.2% ± 3 digits	1.2% ± 5 digits	1.2% ± 5 digits
DC accuracy	1.0% ± 3 digits	1.0% ± 3 digits	1.0% ± 2 digits
<b>RESISTANCE &amp; CONTINUITY</b>			
Resistance ranges	400Ω	600Ω/6KΩ/60kΩ/600kΩ/6MΩ	1000Ω
Accuracy	1.0% +/- 2 digits	1.0% +/- 3 digits	1.0% +/- 2 digits
Continuity threshold	buzzer < 25Ω	buzzer ≤ 30Ω	buzzer ≤ 30Ω
<b>FREQUENCY MEASUREMENT</b>			
Frequency ranges current		6kHz/10kHz	
Frequency ranges voltage		6kHz/60kHz/100kHz	
<b>CAPACITANCE</b>			
Capacitance ranges		6nF to 600mF	
Accuracy		3.0% +/- 10 digits (60nF to 600mF)	
<b>NON-CONTACT VOLTAGE DETECTOR</b>			
Voltage range at 50-60Hz		90V-600V	
<b>ENVIRONMENTAL</b>			
Temperature and humidity (operating)	0°C to 40°C <80% R.H., non-condensing		
Temperature and humidity (storage)	-10°C to 60°C <70% R.H., batteries removed		
Altitude	up to 2000m		
Pollution degree	2		
<b>GENERAL</b>			
Power	2 x 1.5V, AAA alkaline batteries (IEC LR03, NEDA 24A)		
Max conductor size	25mm Ø, 35x15mm	25mm Ø, 35x15mm	25mm Ø, 45x15mm
Dimensions	203 (L) x 75 (W) x 32 (D) mm	203 (L) x 75 (W) x 32 (D) mm	210(L) x 62(W) x 36(D) mm
Weight	262g approx. including batteries	270g approx. including batteries	273g approx. including batteries
<b>SAFETY</b>			
Conforms to	BS EN 61010-1, BS EN 61010-2-032, CAT III 600V, CAT IV 300V Class II, double insulation		
<b>EMC</b>			
Conforms to	BS EN 61326-1		

**Included**

TL16 lead set, 2 x 1.5V AAA alkaline batteries, carry case, instruction manual

**Related products**

**ET4** AC/DC Electrical tester  
**ET5** AC/DC Electrical tester  
**CM51** AC Current only clamp  
**CM69** TRMS AC Leakage clamp  
**CM82** High current AC clamp

**CM84** High current AC/DC clamp  
**CM87** High current TRMS AC/DC clamp  
**CM95** High resolution AC flex meter  
**CM100** High current AC flex meter

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