Specification
CM95/CM100
True RMS Flexible Clamp Meter



ELECTRICAL

All specified accuracies are at 23°C ± 5°C, <80% RH for 1 year.

Temperature coefficient: add 0.1 x (specified accuracy) per °C (0°C to 18°C, 28°C to 40°C)

Accuracies below are expressed as ± (percentage of reading + digits)

AC Current

CM95		
Range	**Resolution**	**Accuracy** (45Hz to 500Hz)
4A	0.001A	3.0% + 5 Note 1
40A	0.01A	
400A	0.1A	

CM100		
Range	**Resolution**	**Accuracy** (45Hz to 500Hz)
30A	0.01A	3.0% + 5 Note 1
300A	0.1A	
3000A	1A	

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Dimensions: Meter: 120mm (L) x 70mm (W) x 26mm (D)
Cable length (probe to meter): 1.8m
Flexible sensor length: 254mm (CM95)
458mm (CM100)
Flexible sensor diameter: 5.5mm nominal (CM95)
8.5mm nominal (CM100)
Maximum conductor diameter: 85mm (CM95)
160mm (CM100)
Weight (including batteries): 196g approx. (CM95)
286g approx. (CM100)
Includes: 2 x 1.5V AAA batteries, instructions

ENVIRONMENTAL

Temperature & Humidity:
(Operating): 0°C to 50°C <80% R.H., non-condensing
(Storage): -10°C to 60°C < 70% R.H., batteries removed
Altitude: up to 2000m
Pollution degree: 2

SAFETY

Conforms to: BS EN 61010-1, BS EN 61010-2-032, CAT IV 600V, CAT III 1000 V
Class II, double insulation

EMC

Conforms to BS EN 61326-1

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AC conversion: True rms

True rms AC current accuracy is specified from 2% of range to 100% of range. With an input of less than 2% of range the unit may indicate zero or indicate randomly.

Crest factor: ≤ 1.6 at full scale
≤ 3.2 at half scale

Note 1: Measurement accuracy assumes a centrally positioned conductor, no external electrical or magnetic field and within operating temperature range. See figure 3 and the position sensitivity error table below for additional errors where the conductor is not centrally positioned.

Position Sensitivity Error		
Distance of conductor from loop centre	**Additional Error (% of reading)**	
	CM95	**CM100**
1" (2.54cm)	1.0	1.0
1.6" (4.06cm)	2.0	1.0
2" (5.1cm)	---	2.0
3" (7.6cm)	---	3.0

GENERAL

Display: Liquid crystal display with maximum reading 4200 (CM95), 3150 (CM100)
Sample rate: 2 times/sec
Overrange: " — OL — " is displayed
Power: 2 x 1.5V, AAA alkaline batteries (IEC LR03, NEDA 24A)
Battery life: 120 hours typical with alkaline
Low battery indication: ▭+ symbol is displayed
Auto power off: After 15 minutes

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- Proving Units
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- Socket Testers
- Thermometers & Probes
- Test Leads
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- Specialist Drummond Testers

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