

MARTINDALE
ELECTRIC

Specification
CM100
Flexible Current Meter



ELECTRICAL

All specified accuracies are at 23°C ± 5°C, <80% RH for 1 year.
Temperature Coefficient: 0.1 x (specified accuracy) per °C. (0°C to 18°C, 28°C to 40°C).

Range	Resolution	Accuracy (45 Hz to 500 Hz)
30 A	0.01 A	± (3.0 % of rdg + 5 dgts) Note 1
300 A	0.1 A	
3000 A	1 A	

AC conversion: True rms.

True rms AC current accuracy is specified from 2 % of range to 100 % of range.

Crest factor: ≤ 1.6 at full scale (30.00A/300.0A/3000A).
≤ 3.2 at half scale (15.00A/150.0A/1500A).

Note 1: Measurement accuracy assumes a centrally positioned conductor, no external electrical or magnetic field and within operating temperature range. See figure 2 and the position sensitivity error table below for additional errors where the conductor is not centrally positioned.

Position from loop centre (refer to figure 2)	CM100/18		CM100/60	
	Distance	Error	Distance	Error
A	1" (2.54cm)	1.0 %	3" (7.6cm)	2.0 %
B	2" (5.1cm)	2.0 %	6" (15.2cm)	3.0 %
C	3" (7.6cm)	3.0 %	9" (22.9cm)	4.0 %

ENVIRONMENTAL

Operating environment: 0°C to 50°C, <80% RH, non-condensing
Storage temperature: -10°C to 60°C, 70% RH
Altitude: Up to 2000m

GENERAL

Display: Liquid crystal display with a maximum reading of 3150 digits.
Overrange: "–OL–" is displayed
Low battery indication: symbol is displayed when the battery voltage drops below the operational level
Sampling rate: 2 times per second.
Auto power off: After approx. 15 minutes
Power: 2 x 1.5 V AAA batteries (IEC LR03, NEDA 24A)
Battery life: 120 hours typical with alkaline
Dimensions:
Meter: 120mm (L) x 70mm (W) x 26mm (D)
Probe cable length: 457mm (CM100/18), 1524mm (CM100/60)
Probe cable diameter: 8.5mm nominal
Cable length (probe to meter): 1.8m
Weight: 286g approx. including batteries
Includes: 2 x 1.5V AAA batteries and instructions