



M1



S

<b>Model M1</b> <b>Transformer ratio (Arms)</b> <b>Rated burden</b> <b>Maximum load</b> <b>Overload (Arms)</b> <b>Weight</b> <b>Colours</b> <b>Dimensions</b> <b>Jaw opening</b> <b>Accuracies</b> for 50 Hz for 2000Hz for 50A for phase <b>Connections</b>	100 A/1A 1W 2W 120% continuous, 150% for 5 min/ h 100 gm approx. Red, Yellow, Blue 97 x 46 x 27 mm. Cable Dia 15 mm max. ±2% of rdg. for 5A to 10A ±1% of rdg. for 10A to 150A ±1% of rdg. for 100A ±2% from 30Hz to 10000Hz from 1° to 2.5° Safety sockets for banana plugs ø 4mm	<b>Model S</b> <b>Transformer ratio (Arms)</b> <b>Overload (Arms)</b> <b>Weight</b> <b>Colours</b> <b>Dimensions</b> <b>Jaw Opening</b> <b>Bus bar</b> <b>Accuracies</b> for 30Hz to 5000Hz for 45Hz to 1000Hz for 50Hz to 400Hz <b>Connections</b>	200/5A, 500/5A, 1000/5A (Single Range) 100, 500, 1000/5A (Triple Range) 120% continuous, 200% for 5 min/h 535 gm approx. Red, Yellow, Blue 217 x 109 x 40 mm. Cable Dia 53 mm max. 51 x 12mm Class 2 for Rated Burden 0.8W Class 1 for Rated Burden 0.4W Class 0.5 for Rated Burden 0.2W Safety Sockets for Banana Plugs ø 4mm
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**Note :** Clamps with specifications other than above available subject to technical specifications.

**Caution :** The current probe secondary should never be open-circuited. Otherwise, lethal voltages will be developed and the probe will be damaged. Always complete the secondary connection firmly before clipping on the probe to the circuit. For disconnection, reverse the sequence. For power measurements, ensure the correct P1, P2 and S1, S2 polarities as indicated by the arrows on the Probe.



FCT Series

### Model FCT Series

MECO FCT is a Flexible Current Transformer based on the Rogowski principle. It is suitable to conveniently measure Single / Three Phase AC and Pulsed DC Currents. After approximate signal conditioning, it can be used with Digital Multimeters, Recorders and other suitable equipment to measure current from very low frequencies up to 1MHz.

The probes comprises of a flexible air-cored sensor which can be opened and installed around a primary conductor without interrupting the circuit. The flexible and lightweight measuring head allows quick and easy installation in hard to reach areas and over large conductors. Inner Diameter / Window Size and leads can be customized.

### Specification

Typical Voltage Output VoRMS (Sinusoidal Current)	$(2.183 \times 10^{-6}) \times I_{RMS} \times \text{Frequency}$
VoRMS ( at 3000ARMS, 50 Hz)	300mV AC
Rated Current (RMS)	3000A
Inner Diameter / Window Size	100mm (5")
Coil Diameter	9 mm
Internal Resistance per Probe	120Ω
Operating Temperature Range	-10°C to + 60°C
Storage Temperature Range	-20°C to + 70°C

Bandwidth	5Hz ~1MHz
Accuracy	± 0.2%(Most accurate position, 25°C)
Phase Shift	90 ± 0.2 degrees
Temperature Sensitivity	0.08% per °C
Position Sensitivity	± 0.5%
Working Voltage	1000V AC RMS
Colour	Red, Yellow, Blue and Black

**Ordering Information :** Model, Rated Input (A AC) & Rated Output