







Order Code: 17719A

Transformer ratio (Arms) 100 A/1A
Rated burden 1W

Maximum load 2W

Overload (Arms) 120% continuous, 150% for 5 min/h

Weight 100 gm approx.

Colours Red, Yellow, Blue

Dimensions 97 x 46 x 27 mm.

Jaw opening Cable Dia 15 mm max.

Accuracies

for 50 Hz  $\pm 2\%$  of rdg. for 5A to 10A

 $\pm$  1% of rdg. for 10A to 150A

for 2000Hz  $\pm$  1% of rdg. for 100A

for 50A  $\pm 2\%$  from 30Hz to 10000Hz

for phase from 1° to 2.5°

Connections Safety sockets for banana plugs ø 4mm

Order Code: 17719I

Accurate measurement of AC, Pulsed DC or complex wave form of very low frequency upto 100kHz.

It is very handy to pass through cables or bunches of conductor wires upto a diameter of 170mm (max.)

measures the current passing through the conductor. The output through 4mm banana pins can be connected to any Digital Multimeter in mV AC range to read the primary current upto 3000A AC.

Model

Range 3000A AC

Output 100mV / 1 KA AC

Accuracy ± 1%

Probe Length 600mm

Output Terminal 4mm Banana Pins

Ordering Information: Model, CT Ratio, Single / Triple Range, Colour

Order Code: 17719B & 17719C

**Transformer ratio (Arms)** : 200/5A, 500/5A, 1000/5A (Single Range)

100, 500, 1000/5A (Triple Range)

Overload (Arms) : 120% continuous, 200% for 5 min/h

Weight : 535 gm approx.

Colours : Red, Yellow, Blue

Dimensions : 217 x 109 x 40 mm.

Jaw Opening : Cable Dia 53 mm max.

Bus bar : 51 x 12mm

Connections : Safety sockets for banana plugs ø 4mm

Accuracy class	2	1	0.5
Rated burden	0.8W	0.4W	0.2W
Frequency range	30Hz to 5000 Hz	45 Hz to 1000Hz	50 Hz to 400 Hz

Limits of Errors for: The secondary burden is any value from 25% to 100% of the rated burden

(with 1VA min.), 50Hz/60Hz and 20°C

			Rated Cui	rent Show	n Below a	s % lpn			
% Ipn	5%	10%	20%	100%	120%	5%	20%	100%	120%
ACCURACY Percentage ratio MAX. in ± % lpn Phase displacement MAX. in ± Minute							Minutes		
Class 0.5	1.5	1.5	0.75	0.5	0.5	90	45	30	30
Class 1	3.0	3.0	1.5	1	1	180	90	60	60
Class 2 4 4 3 2 2 No specified									
To obtain t	he error fo	r an intern	nediate val	ue of Ipn u	se linear i	nterpolatio	n.		

## 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.

Note: Specifications are subject to change.

# Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India, Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com

Website: www.tesca.in







Clamp-On Current Transformer's are designed for fast and easy installation. These Clamp-On Current Transformers use Permalloy Magnetic Core or Silicon Amorphous Core, with characteristics of small size, high precision, good stability and strong anti-interference ability. These sensor's give a standard AC Current output which is suitable to conveniently measure on Single Phase / Three Phase Circuits with good stability and high anti-interference ability. It is ideal for power and energy measurement with high precision and small phase angle error in applications related to electric power, communication, monitoring and control. It can measure a variety of electric parameters without removing cables. The Standard length of Output Leads is 2 Meter. However Output and Leads Cable can be customized for bulk requirements.

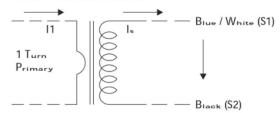
#### Feature

- Clamp-On Design, Fastening, Safe, Easy to Install, Portable.
- , Wide Inner Window, Allowing Clamping of Big Cables or Bus-Bars.

#### Applications

- Current Measurement, Monitoring and Protection for Electrical Wiring and Equipment.
- Current and Power Measurement for Electric Motors, Lighting, Air Compressor, Heating and Ventilation System, Air-Condition Equipment and Automation-Control System.
- Current, Power and Energy Monitoring Device.
- Relay Protection Device.

#### Circuit Connection Diagram



#### Electrical Specifications

Frequency	50 - 400Hz
Rated Input	As Below
Measuring Range	5% In - 130% In
Rated Output	0 - 5A AC (Standard)
	0 -1A AC or 0-10V AC (Optional)
Ratio	≤ ± 0.1 %
Phase Angle	≤ ± 10min
Dielectric Strength	3.0KV / 1 <sub>m</sub> A / 1 <sub>min</sub>
Insulation Resistance	DC500V / 100MV min

#### Mechanical Specifications

Wechanical Specifications	
Case	ABS / UL 94 - V。
Bobbin	PBT
Core	Silicon Steel / Permalloy
Internal Structure	Screw
Construction	Screw
Operating Temp.	-25°C ~ +75°C
Operating Humidity	≤ 85 %
Output Connection	UL1015 22AWG Wire
	(Twisted Wire) 2m

Model	Rated Input (A AC)	Rated Output	Accuracy	Dimensions (mm) (ID - L - W - H)
17719D	0 - 100A	5A AC (Standard)		8.0 - 135.0 - 42.0 - 20.0
17719E	0 - 500A	1A AC or 10V AC	1.0	
17719F	0 - 1000A	(Optional)	1.0	

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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 x 10 <sup>-6</sup> ) x IRMS x Frequency
VoRMS ( at 1000ARMS, 50 Hz)	100mV AC
Rated Current (RMS)	3000A
Inner Diameter / Window Size	127mm (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	$\pm 0.2\%$ (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



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### Specification

Model	Window size/ ID (mm)	Primary Current (A AC)	Secondary Output (A AC)	Accuracy
	60	0 ~ 2000A	5A, 2A, 1A,	0.2,0.5,1.0
17719G			10mA, 20mA, 50mA, 80mA, 100mA, 200mA	

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