# Topstek AC Current Sensors TX7P-5A .. TX7P-20A

## TX7P-5A~20A

## Features

- ◆ High reliability AC current measurement device
- ◆ Quick response speed, very low phase lag
- High isolation voltage between the measuring circuit and the current-carrying conductor (AC4KV)
- ♦ All materials used are RoHS compliant
- ♦ Flame-Retardant plastic case and silicone encapsulant, using UL 94V0 classified materials, protect against environmental contaminants and vibration over a wide temperature and humidity range

#### Applications

- ♦ ADC inputs
- Power meters
- Over current detection
- ♦ Ground Fault detection
- ◆ Isolated AC current monitoring
- AC current sensing for switching power supply

### **Specifications**

Parameter	Symbol	Unit	TX7P-5A	TX7P-10A	TX7P-15A	TX7P-20A
Nominal Input Current	I <sub>FN</sub>	A <sub>RMS</sub>	5	10	15	20
Linear Range	I <sub>FS</sub>	A <sub>RMS</sub>	60	60	60	60
Output Voltage I <sub>F</sub> =I <sub>FN</sub> ( $R_L$ =100 $\Omega$ )	V <sub>FN</sub>	V <sub>RMS</sub>	0.5	1	1.5	2
Secondary Turns *1	N	-	1000 nominal			
Secondary DC Resistance	R <sub>DC</sub>	Ω	< 30Ω, T <sub>A</sub> =25°C			
Accuracy Over Working Range *1		%	Within $\pm 2\%$ I <sub>F</sub> = 0.1 I <sub>FN</sub> $\rightarrow$ 3.0 I <sub>FN</sub>			
Dielectric Strength	-	V	AC4KV X 60 sec			
Isolation Resistance @ 1000 VDC	R <sub>IS</sub>	MΩ	> 500 MΩ			
Operating Temperature	Ta	°C	-20°C to 120°C			
Storage Temperature	Ts	°C	-20°C to 125°C			
Mass	W	g	16g			

\*1. The number of secondary turns for each part model might be adjusted for the best accuracy of output voltage at nominal input current level.

## Appearance, dimensions and pin identification

All dimensions in mm ±0.1, holes -0, +0.2 except otherwise noted



