

# Topstek AC Current Sensors TX9P-5A .. TX9P-20A

## TX9P-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
- ◆ General 50/60Hz current sensing



### Specifications

Parameter	Symbol	Unit	TX9P-5A	TX9P-10A	TX9P-15A	TX9P-20A
Nominal Input Current	$I_{FN}$	$A_{RMS}$	5	10	15	20
Linear Range	$I_{FS}$	$A_{RMS}$	60	60	60	60
Output Voltage $I_F = I_{FN}$ ( $R_L = 100\Omega$ )	$V_{FN}$	$V_{RMS}$	0.5	1	1.5	2
Secondary Turns *1	N	-	1000 nominal			
Secondary DC Resistance	$R_{DC}$	$\Omega$	< 43 $\Omega$ , $T_A = 25^\circ C$			
Accuracy Over Working Range *1		%	Within $\pm 2\%$ $I_F = 0.1 I_{FN} \rightarrow 3.0 I_{FN}$			
Dielectric Strength	-	V	AC4KV X 60 sec			
Isolation Resistance @ 1000 VDC	$R_{IS}$	M $\Omega$	> 500 M $\Omega$			
Operating Temperature	$T_a$	$^\circ C$	-20 $^\circ C$ to 120 $^\circ C$			
Storage Temperature	$T_s$	$^\circ C$	-20 $^\circ C$ to 125 $^\circ C$			
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  $\pm 0.2$ , holes  $-0, +0.2$  except otherwise noted

### Test Circuit

