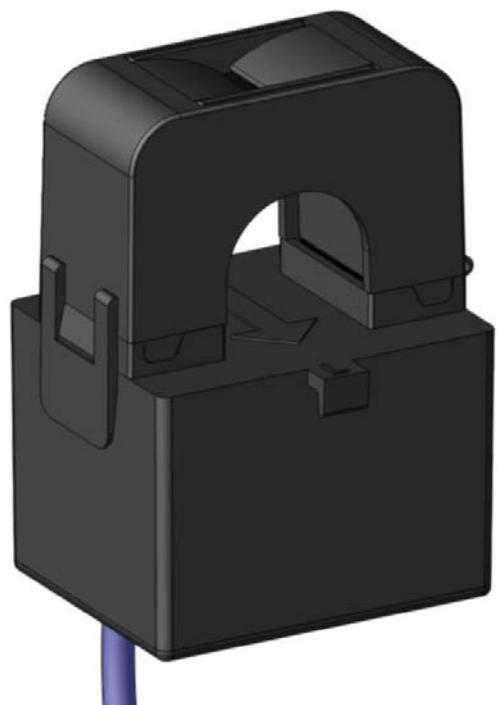


Topstek True RMS Current Transducer TU20P5A..TU20P250A-CL420

TU20P 5A~250A-CL420

Features

- ♦ Highly reliable True RMS current measurement device
- ♦ Clamp on split core structure
- ♦ Faster response time than temperature sensing
- ♦ Excellent linearity of the output voltage over a wide input range
- ♦ VFD and SCR type waveforms current measurement
- ♦ 4-20mA True RMS current loop output
- ♦ High isolation voltage between the measuring circuit and the current-carrying conductor (AC3KV)
- ♦ Flame-Retardant plastic case and silicone encapsulant, using UL classified materials, ensures protection against environmental contaminants and vibration over a wide temperature and humidity range



Applications

- ♦ Power measurement, power panel
- ♦ True RMS AC+DC current measurement

Options

- ♦ Connector type: specify -E or -M. If other types of connector required, please contact factory for other possibilities.
-M: UL 1017 AWG22, Length:150±10mm with Molex 5045 type female connector (2.54mm pitch)
-Y: UL 1017 AWG18 Wire, Length:3000±50mm, Two Y4.3 Terminals with PVC Tube

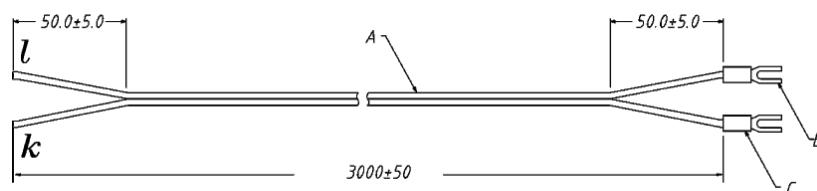
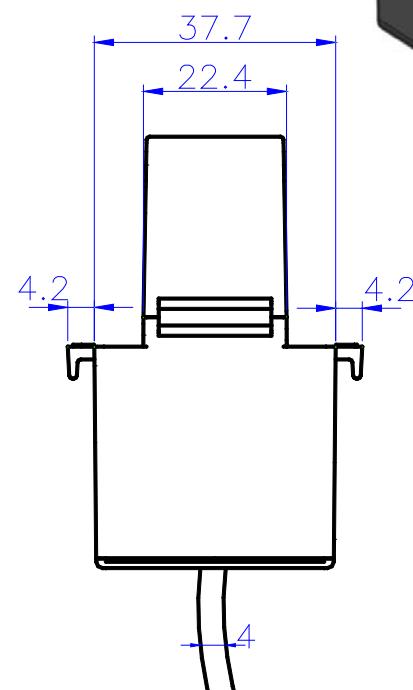
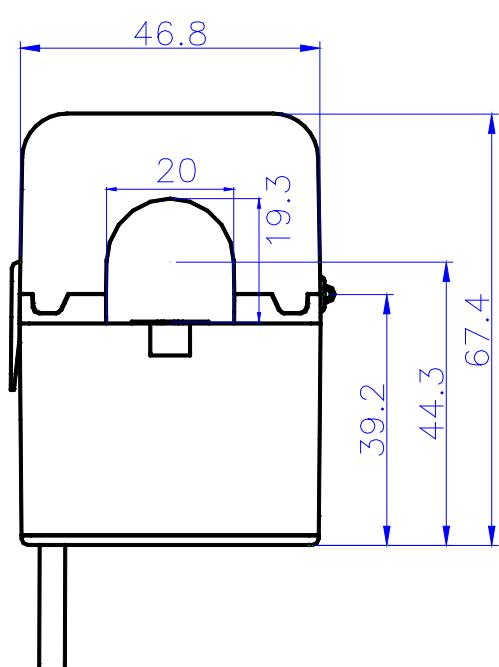
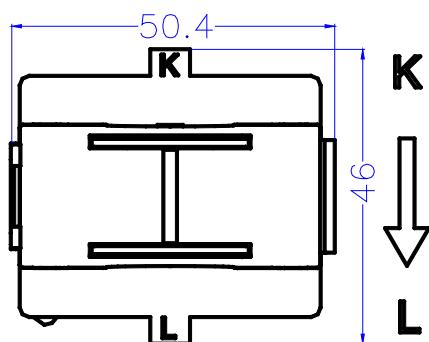
Specifications

Parameter	Symbol	Unit	5A	10A	20A	30A	50A	75A	100A	150A	200A	250A
Full Scale Input Current	I_{PN}	A _{RMS}	5	10	20	30	50	75	100	150	200	250
Max Primary Current Peak	I_{PMax}	A	±30	±60	±120	±180	±300	±450	±450	±450	±600	±600
Input Crest Factor (Peak/Average Ratio)	CF		6	6	6	6	6	6	4.5	3	3	2.4
Current Output Protocol	I_{OUT}	mA					4-20 mA Current Loop, 4mA@ $I_P = 0A$, 20mA@ $I_P = I_{PN}$					
Output Offset Current	I_{OS}	mA						+4 mA				
Over-Scale Output Current	I_{OL}	mA							<+23 mA			
Load Resistance	R_L	Ω							<300 Ω			
Supply Voltage	V_{CC}	V							+20V ... +32V			
Accuracy @ I_{PN}		%					Within ±1% of I_{PN} @ 25°C(excluding offset)					
Linearity	ρ	%							Within ±1% of I_{PN}			
Consumption Current	I_{CC}	mA							4-20 mA (= I_{OUT})			
Response Time (90% I_{PN} Step)	T_r	μsec							<200 msec			
Frequency bandwidth (±1dB)	f_{BW}	Hz							20 to 6kHz			
Thermal Drift of Output	-	%/°C							Within ±0.1 %/°C @ I_{PN}			
Thermal Drift of Zero Current Offset	-	μA/°C							< ±3μA/°C(0-60°C), < ±6μA/°C(-40 .. 70°C)			
Dielectric Strength	-	V							AC3.5KV X 60 sec			
Isolation Resistance @ 1000 VDC	R_{IS}	MΩ							>1000 MΩ			
Operating Temperature	T_a	°C							-40°C to 70°C			
Storage Temperature	T_s	°C							-45°C to 85°C			
Mass	W	g							225 g			

Topstek True RMS Current Transducer TU20P5A..TU20P250A-CL420

Appearance, dimensions and pin identification of TU24P-CL420

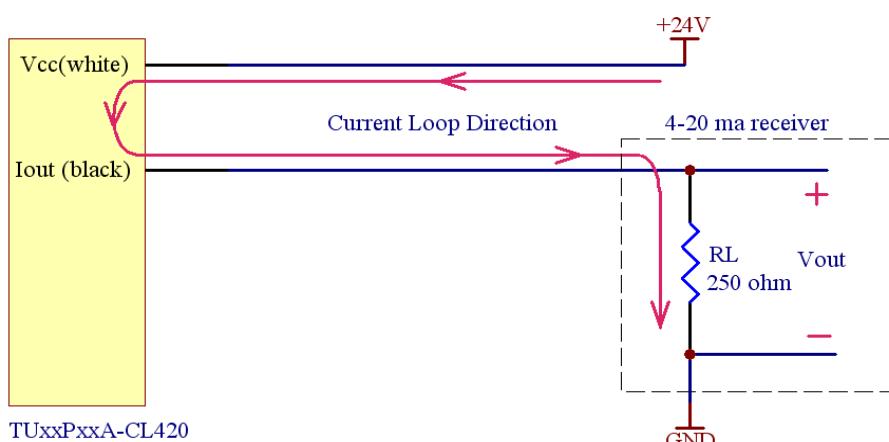
All dimensions in mm ± 0.5 , holes -0, +0.2 except otherwise noted.



k (white) : +24V
l (black) : I_{OUT}

Option Y Terminal

Application Connection



TUxxPxxA-CL420