



Technical Data Sheet

Theta CT



Theta CT With Transducer for the measurement of AC current. Theta CT a very reliable, efficient and robust current transformer for measurement of AC current. It provides 4 to 20 mA or 0 to 20mA DC output.

Special Features

- Two products in one - single device serves functionality of both current transformer as well as transducer
- Measurement of AC current for frequency 50/60Hz
- Provides proportional 4 ... 20 mA or 0 ... 20 mA DC output
- High output load resistance up to 1000 ohm
- Two models for True RMS and Average type measurement available
- Easy and safe electrical connection by means of spring clamp terminal

Current Transformers with Transducer - Measurement of AC current

- Theta CT is a very reliable, efficient and robust current transformer for measurement of AC current. It provides 4 ... 20 mA or 0 ... 20mA DC output.
- It is useful in
 - Data Monitoring & Network Analysis
 - Measurement of non - sinusoidal and distorted networks

Technical Data

Measuring Range (In)	0 ... 300 A AC or 0 ... 750 A AC (Refer Model Info Table)
Input Frequency Range	50/ 60 Hz
DC Current Output	4... 20 mA , 0...20 mA
Bent Characteristics	R _B 750 ff, R _B 1000 ff (U _H > 24 V DC)
Current Limit Under Overload	< 30 mA
Accuracy (IEC 60688)	+/- 0.5 %
Max. Operating Voltage Um	0.72 kV, U _{eff}
Isolation Test Voltage (IEC 61010-1)	6.4 kV AC , 50 Hz, 60 Seconds Primary Conductor Vs Measuring Output Housing Vs Measuring output and Auxiliary supply
Auxiliary Voltage	24 V DC, +/- 15% (external protection via fuse 250 mA / 250 V, fast)
Current Consumption	< 50 mA
Response Time	< 600ms
Installation Category	III
Thermal Nominal Continuous Rated Current	1.2 x I _n
Protection Class	IP20
Operating Temperature and Humidity	0 ... 70 °C, 0 ... 95% rH without condensation
Storage Temperature	-40 ... 90 °C
Max. Temperature of Primary Conductor	100° C

Applicable Technical Standards

Electromagnetic Compatibility	IEC-61326-1, Table 2
Immunity	IEC 61000-4-2
	IEC 61000-4-3
	IEC 61000-4-4
	IEC 61000-4-6
	IEC 61000-4-8
	Short term measured value deviation of +/-1% may occur during electromagnetic interference thus reducing the specified operating quality
Emission	CISPR 11
Safety	IEC 61010-1, 2010
Accuracy	IEC 60688, 2012

Electric Connections

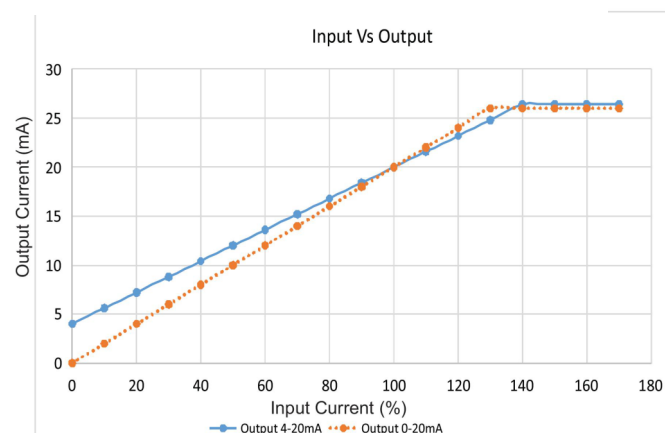
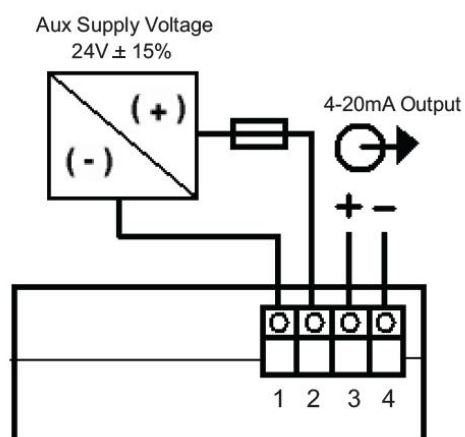
Measuring Ranges

Iout -	Iout +	UH+	Ground
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Spring clamp terminal

Connection cross sections: 0.08 ... 2.5 mm²

Connection Diagram

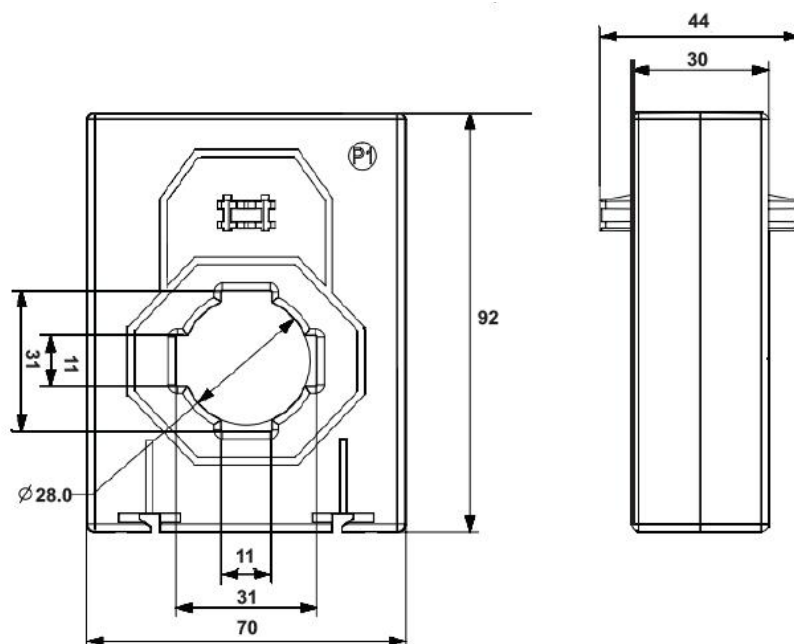


Dimensions

Model 70 x 30 mm

Transformer width : 70 mm
Transformer height : 92 mm
Transformer depth : 44 mm

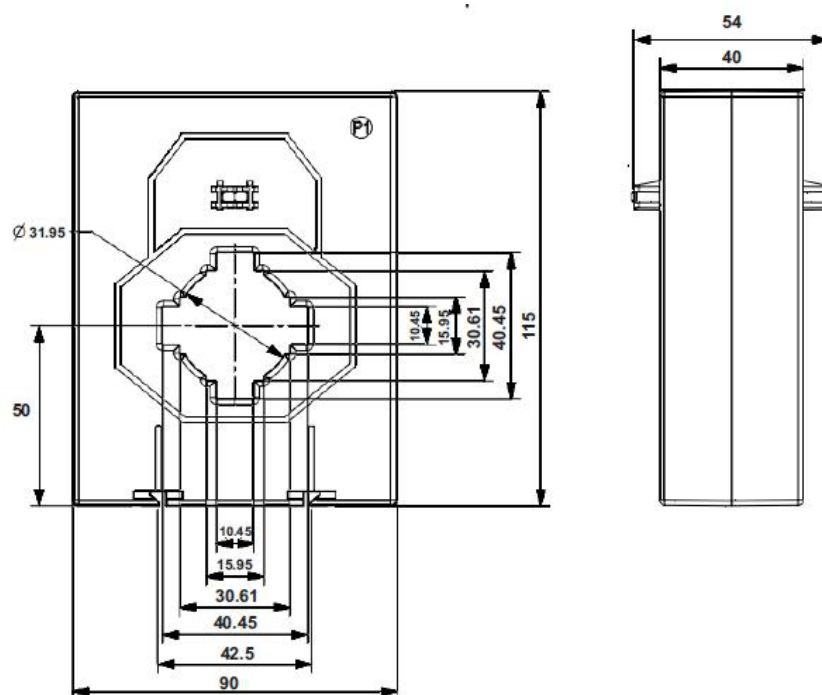
Bus bar: 30 x 10 mm
Round conductor: 28 mm



Model 90 x 40 mm

Transformer width : 90 mm
Transformer height : 115 mm
Transformer depth : 58 mm

Bus bar : 30 x 10 mm
Round conductor : 31.5 mm



Theta CT, CT with Transducer options

Type	Primary Current (AC)	Current Output (mA DC)
Theta CT 70 x 30mm (TRMS or Average)	50	4 ... 20 mA or 0 ... 20 mA
	100	
	150	
	200	
	250	
	300	
Theta CT 90 x 40 mm (TRMS or Average)	150	4 ... 20 mA or 0 ... 20 mA
	200	
	250	
	300	
	400	
	500	
	600	
	750	

Ordering Information

CT with Transducer	TTT1	XX	X	XX	X	XXXXXXX	
Type	70 x 30mm AVG	1A					
	70 x 30mm TRMS	1T					
	90 x 40mm AVG	2A					
	90 x 40mm TRMS	2T					
Primary Current Ratio	50A*		A				
	100A*		B				
	150A		C				
	200A		D				
	250A		E				
	300A		F				
	400A**		G				
	500A**		H				
	600A**		I				
	750A**		J				
	Non Standard Range***		X				
Output	4 ... 20 mA DC			75			
	0 ... 20 mA DC			65			
Power Supply	24V DC				L		
Version	Standard						0000000
	Custom						00000XX

* Available only in size 70 X 30 mm only

** Available in size 90 X 40 mm only

*** After written confirmation from HO only - Please contact HO



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