

AC Current Transformer/Transducer with Analogue Output



AC/ DC transducer

Current Transformers in-built Transducer for the measurement of AC current

CT with Transducer is 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. It can be used for

- For network analysis, monitoring
- Measuring of non -sinusoidal and distorted networks

Features

- The AC transducer is intended for continuous conversion of the effective AC current into a standardized DC signal.
- Output signal is galvanically isolated from the input signal.
- Mounted directly on the busbar using mounting screws, on the wall or on a 35 mm din rail using additional fasteners.
- Plastic housing - Polycarbonate UL 94 V-0
- Spring clamp terminal wire connections up to 2.5 mm² Cable
- Measurement of AC current for frequency 50/60Hz, Provides proportional 4 - 20 mA or 0-20 mA DC output

Technical data:

Measuring range (In):	0...300 A AC Or 0....750 A AC (Refer Model Info Table)
Frequency range:	50/60 Hz
DC Current output	DC: 4... 20 mA , 0...20 mA
Max. burden resistance at current output:	R _B 750 Ω, 1000 Ω (U _H ≥ 24 V DC)
Current limit under overload	< 30 mA
Accuracy:(IEC 60688)	± 0.5 %
Max. operating voltage U _m	0.72 kV, U _{eff}
Isolation test voltage (IEC 61010-1)	4.7 kV AC, 50 Hz, 60 Seconds Primary Conductor Vs Measuring output / Housing And Housing Vs Measuring output / Auxiliary supply
Auxiliary voltage:	24 V DC, ± 15% external protection via microfuse 250 mA / 250 V, fast
Current Consumption:	< 50 mA
Response time	< 600ms
Over voltage category	III
Thermal nominal continuous rated current	1.2 x I _n
Isolation class / Protection class	E / IP 20
Operating temperature:	0° C < T _U < +70° C, 0...95% rH, without condensation
Storage temperature:	-40° C < T _L < +90° C
Max. temperature of primary conductor:	100° C

Applicable Technical Standards

IEC 60688, 2012

IEC 61010-1, 2010

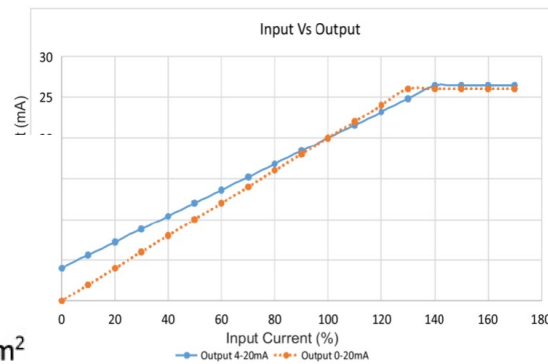
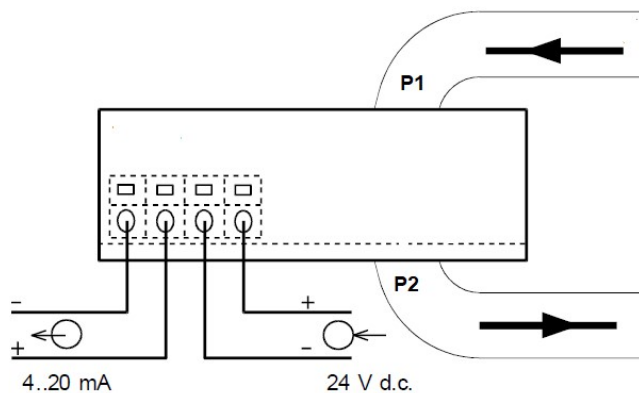
Electric Connections

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

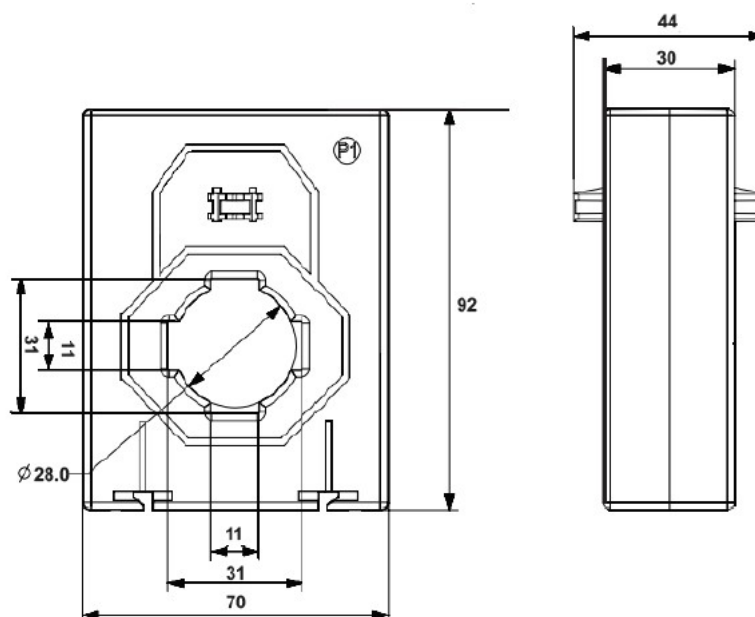
Transformer width: 70 mm

Transformer height: 92 mm

Transformer depth: 44 mm

Bus bar: 30 x 10 mm

Round conductor: 28 mm



Dimensions

Model 90 x 40 mm

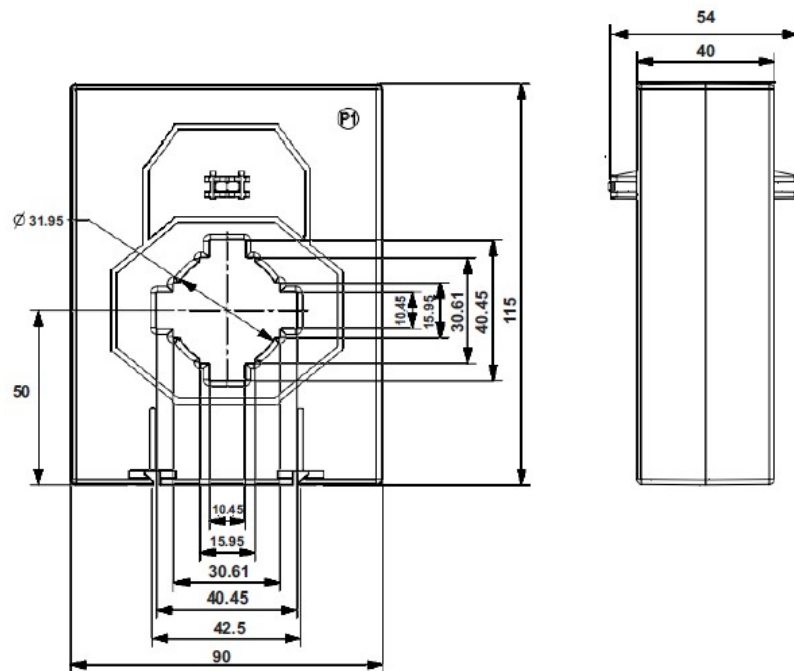
Transformer width: 90 mm

Transformer height: 115 mm

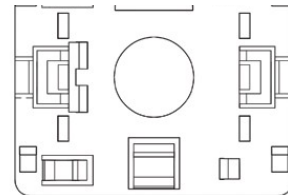
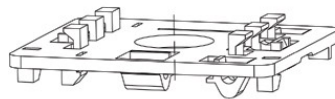
Transformer depth: 58 mm

Bus bar: 30 x 10 mm

Round conductor: 31.5 mm



Optional Din Rail Fixing kit



CT with Transducer Options

Type	Primary Current (AC)	Current Output (mA DC)
70 x 30mm (TRMS or Average)	50	4 ... 20 mA or 0 ... 20 mA
	100	
	150	
	200	
	250	
	300	
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	CCT1	XX	X	XX	X	XXXXXXX
Type	70x30 mm AVG	1A				
	70x30 mm TRMS	1T				
	90x40 mm AVG	2A				
	90x40 mm 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	0 ... 20 mA DC			65		
	4 ... 20 mA DC			75		
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