



T22CT - AC TRANSDUCER

T22CT a transducer 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:

- Measurement of AC current for frequency 50/60Hz, Provides proportional 4 - 20 mA or 0-20 mA DC output.
- High electric isolation between primary conductor and output.
- Easy and safety electrical connection by means of spring clamp terminal.
- Direct mounting onto the bus bar by means of integrated fixing screws which are part of the unit.
- Mounting onto 35 mm DIN rail by means of optional supply of snap on mounting.



TECHNICAL DATA

Measuring range	In: 50, 100, 150, 200, 250, 300A (for version T22CT-1) In: 150, 200, 250, 300, 400, 500, 600, 750A (for version T22CT-2)
Input frequency range	50/60 Hz
DC Current output	4...20 mA or 0...20 mA (acc. to ordering code)
Max. burden resistance at current output:	$R_B = 750 \Omega$ $R_B = 1000 \Omega$ ($U_H \geq 24$ V DC)
Current limit under overload	< 30 mA
Accuracy (acc. to IEC-60688)	$\pm 0.5 \%$
Max. operating voltage U_m	0.72 kV, U_{eff}
Isolation test voltage (acc. to IEC-61010-1)	6.4 kV AC, 50 Hz, 60 sekund uzwojenie pierwotne / wyjście analogowe obudowa / wyjście analogowe i zasilanie
Auxiliary voltage	24 V DC, $\pm 15\%$ (external protection via fuse 250 mA / 250 V, fast)
Current Consumption	< 50 mA
Response time	< 600 ms
Installation category	III
Thermal nominal continuous rated current	1.2 x I_n
Protection class	IP20
Operating temperature and Humidity	$0^\circ\text{C} < T_{op} < +70^\circ\text{C}$, 0...95% rH, without condensation
Storage temperature	$-40^\circ\text{C} < T_{st} < +90^\circ\text{C}$
Max. temperature of primary conductor	100°C
Applicable technical standards	IEC 60688, 2012 IEC 61010-1, 2010

CONNECTION DIAGRAM

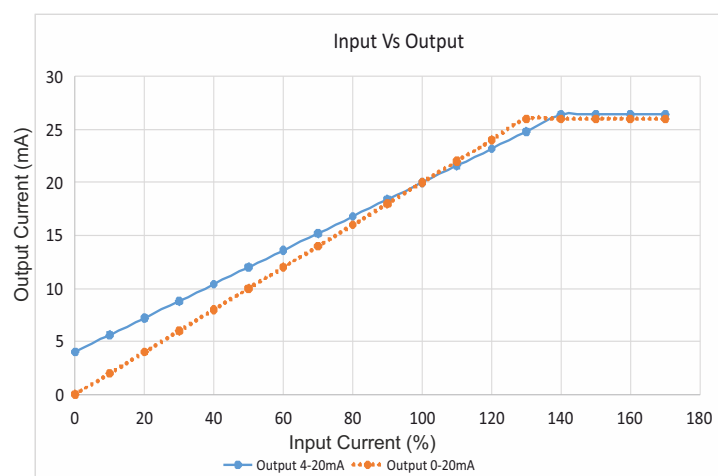
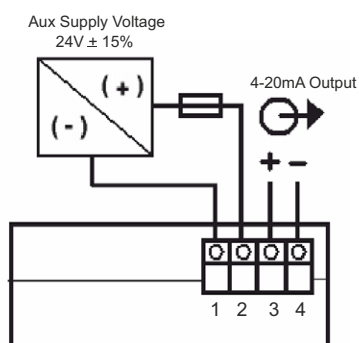
Electric connections:

I_{out} - I_{out} + U_H + Ground

Spring clamp terminal

Connection cross sections: 0.08...2.5 mm²

Connection Diagram:

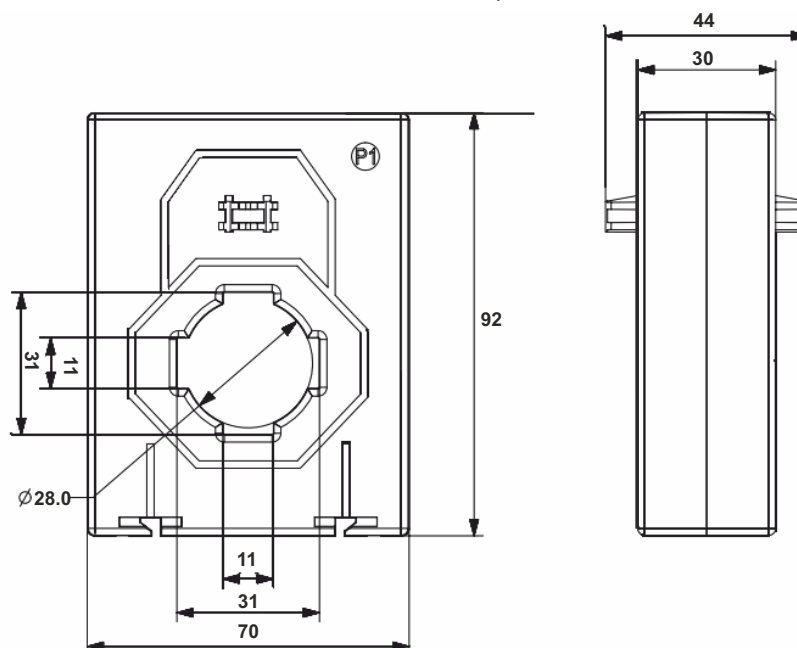


DIMENSIONAL DRAWING

T22CT-1 dimensions 70x30mm:

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

Bus bar: 30x10 mm
Round conductor: 28 mm



DIMENSIONAL DRAWING

T22CT-2 rozmiar 90x40mm:

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

Bus bar: 30x10 mm
Round conductor: 31.5 mm

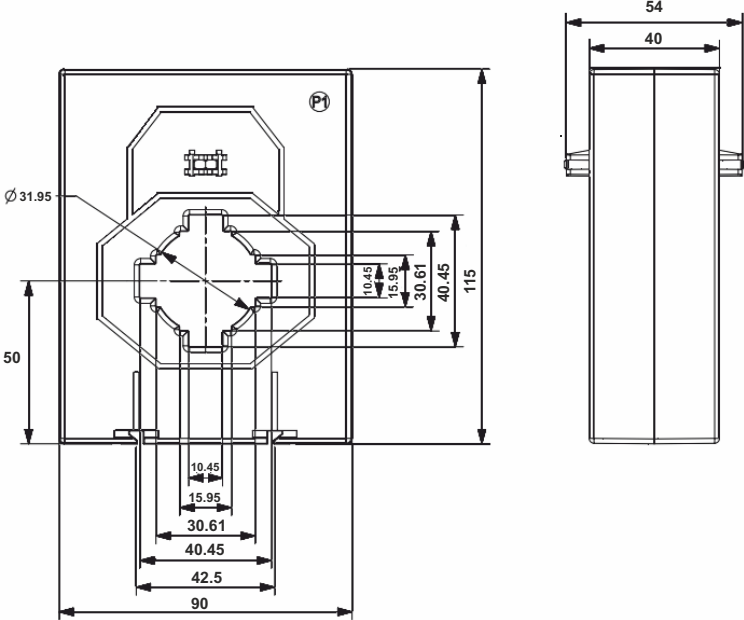


TABLE OF RANGES

Type	Primary current [A]	Current output
T22CT-1 70x30mm (TRMS or average)	50	4...20 mA or 0...20 mA DC
	100	
	150	
	200	
	250	
	300	
T22CT-2 90x40mm (TRMS or average)	150	4...20 mA or 0...20 mA DC
	200	
	250	
	300	
	400	
	500	
	600	
	750	

ORDERING

Ordering code for dimensions 70x30mm

Transducer T22CT	XX	X	XX	L	000000
Type:					
70x30mm; AVG	1A				
70x30mm; TRMS	1T				
Primary current:					
50A		A			
100A		B			
150A		C			
200A		D			
250A		E			
300A		F			
Analog output:					
0...20 mA			65		
4...20 mA			75		
Supply:					
24 V DC				L	
Version:					
standard					000000

Order example:

The code **T22CT 1AB75L000000** means the transducer 70x30mm AVG, primary current 100A with analog output 4-20mA and supply 24V.

Ordering code for dimensions 90x40mm

Transducer T22CT	XX	X	XX	L	000000
Type:					
90x40mm; AVG	2A				
90x40mm; TRMS	2T				
Primary current:					
150A		C			
200A		D			
250A		E			
300A		F			
400A		G			
500A		H			
600A		I			
750A		J			
Analog output:					
0...20 mA			65		
4...20 mA			75		
Supply:					
24 V DC				L	
Version:					
standard					000000

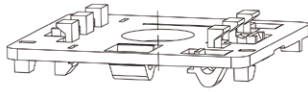
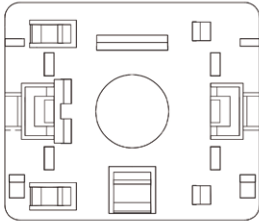
Order example:

The code **T22CT 2AG75L000000** means the transducer 90x40mm AVG, primary current 400A with analog output 4-20mA and supply 24V.

ON STOCK VERSIONS

Ordering code	Description
T22CT-1AA75L000000	70x30mm; primary current 50A; AVG; analog output 4-20mA; supply 24V DC
T22CT-1AB75L000000	70x30mm; primary current 100A; AVG; analog output 4-20mA; supply 24V DC
T22CT-2AC75L000000	90x40mm; primary current 150A; AVG; analog output 4-20mA; supply 24V DC
T22CT-2AD75L000000	90x40mm; primary current 200A; AVG; analog output 4-20mA; supply 24V DC
T22CT-2AE75L000000	90x40mm; primary current 250A; AVG; analog output 4-20mA; supply 24V DC
T22CT-2AG75L000000	90x40mm; primary current 400A; AVG; analog output 4-20mA; supply 24V DC
T22CT-2AI75L000000	90x40mm; primary current 600A; AVG; analog output 4-20mA; supply 24V DC

ADDITIONAL ACCESSORIES:

ACCESSORIES		
DESCRIPTION	VIEW	ORDERING CODE
DIN rail mounting kit	 	LH000-0904-130-128

T22CT-19_en



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