T23CT
- AC/ DC TRANSDUCER

- The Hallotron transducer is intended for continuous conversion of the effective DC and AC current into a standardized DC signal.
- The transducer's output signal is galvanically isolated from the input signal.
- The transducer is mounted directly on the busbar using mounting screws, on the wall or on a 35 mm DIN rail using additional fasteners.
- The transducer housing is made of plastic. The spring clamps allow connection of wires up to 2.5 mm^2.

Electrical CAT III safety

CE

APPLICATION EXAMPLE

Current measurement in electroplating

T23CT-AC/ DC TRANSDUCER

LUMEL
EVERYTHING COUNTS

INPUT	OUTPUT	GALVANIC ISOLATION

TECHNICAL DATA

INPUT

Input type	Properties
Hole for bar conductor	Primary current In: 50, 100, 150, 200 or 300 A a.c./d.c. (according to the ordering code)

OUTPUT

Output type	Properties	
Analog	1 output: 4...20 mA	Load resistance ≤ 500 Ω . Response time 500 ms. Basic error 0.5 %.

EXTERNAL FEATURES

Exteral dimensions	70 x 92 x 47 mm	otwór montażowy 92,5 x 92,5 mm
Busbar	30 x 10 mm	hole diameter: 28 mm
Weight	0.3 kg	
Protection degree	housing: IP65	terminals: IP40

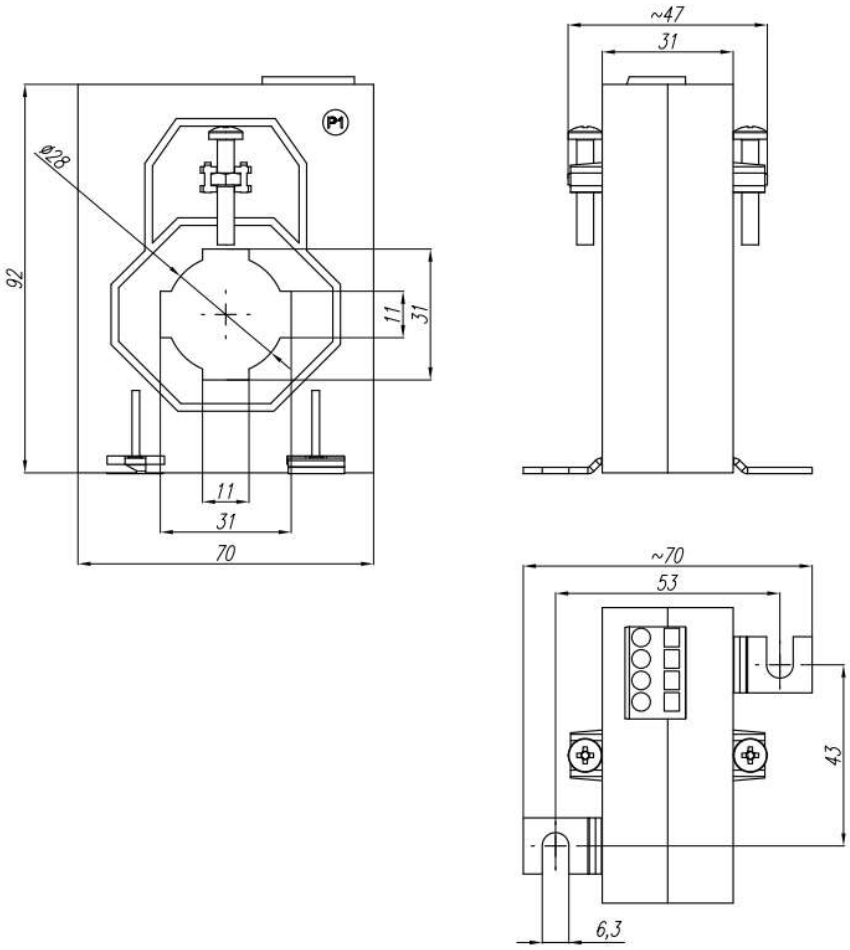
RATED OPERATION CONDITIONS

Supply voltage	24 V ± 20% d.c.	
Power consumption	in supply circuit: 5 W	in current circuit: ≤ 0.2 VA
Input signal	0 .. 0.1..1.2 I_n	frequency d.c. or 20..45..70 Hz; sinusoidal (THD ≤ 8%)
Warm-up time	15 min.	
Ambient temperature	-25 ..23..+55 °C, class K55 acc. to EN61557-12	
Storage temperature	-40 ...+70 °C	
Humidity	0...40...60...95%	unacceptable condensation
Operating position	any	
Zewnętrzne pole magnetyczne	0...40...400 A/m d.c.	3 A/m a.c. 50/60 Hz
Permissible power crest factor	2	
Additional errors in the% basic error	from changes in ambient temperature: < 50% / 10°C	for THD > 8% : < 50 %

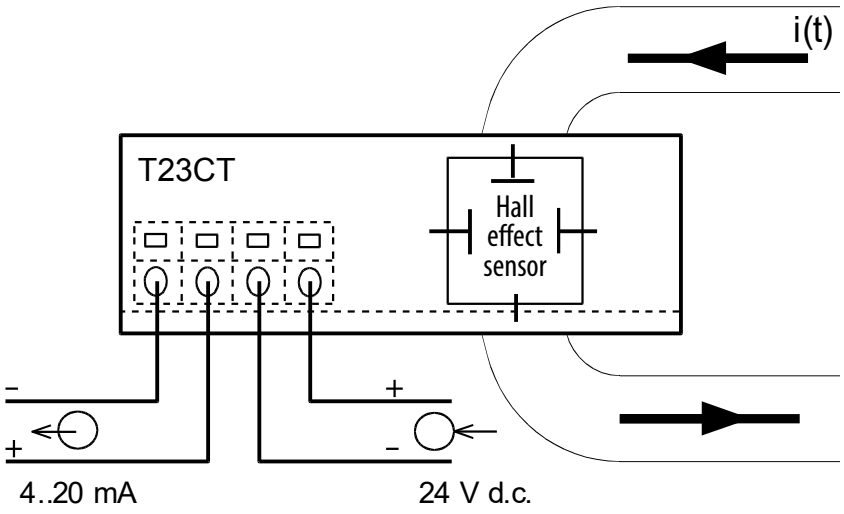
SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Isoaltion between busbar and other circuits	double	acc. to EN 61010-1
Pollution level	2	acc. to EN 61010-1
Installation category	III	acc. to EN 61010-1
Maximal phase-to-earth voltage	• current busbar 600 V • for supply voltage and analog output: 50 V	acc. to EN 61010-1
Altitude above see level	< 2000 m	

DIMENSIONAL DRAWING



CONNECTION DIAGRAM



T23CT- AC/ DC TRANSDUCER

ORDERING

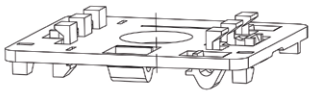
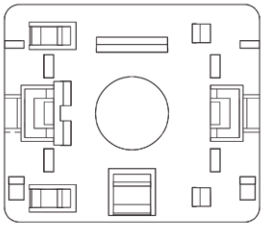
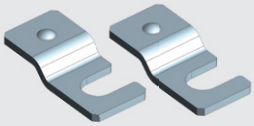
Transducer T23CT -	X	X	XX	X	X
Primary current In [A]:					
50	1				
100	2				
150	3				
200	4				
300	5				
DIN rail mounting kit:					
without		0			
with		1			
Version:					
standard			00		
with a graphene sensor*			01		
Language:					
polish-english				M	
Acceptance tests:					
without extra requirements					0
with an extra quality inspection certificate					1
with a test certificate					2

Order example:
The code: **T23CT-4 1 00 M 0** means:

T23CT - transducer T23CT
4 - primary current 200 A,
1 - with DIN rail mounting kit,
00 - standard version,
M - polish-english user's manual,
0 - without extra requirements.

* after agreeing with the manufacturer

ACCESSORIES:

ACCESSORIES		
DESCRIPTION	**VIEW**	**ORDERING CODE**
DIN rail mounting kit	 	**LH000-0904-130-128**
Busbar and wall mounting kit	Thread cutting screw 4 x 45mm  Wall mounting clamp Swivel Shoe for self tapping M4 screw	**LH000-0904-130-142**

For more information about LUMEL products please visit our website:
www.lumel.com.pl

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T23CT-19

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