

AC Current transducer AK-C420L

Transducer for the electronic measurement AC sinusoidal waveforms current, with galvanic isolation between the primary (High power) and the secondary circuits (Electronic circuit). Jumper selectable ranges and 4-20mA current output.

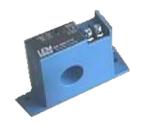








$I_{PN} = 2 ... 200 A$



Electrical data

Prima	ary Nominal Current	Analogue Output Sig	nal¹) Type	RoHS
I _P	_N (A.t.RMS)	I _{OUT} (mA)		Date Code
;	2, 5	4-20	AK 5 C420L	MAY 2006
10, 20, 50		4-20	AK 50 C420L	MAY 2006
100, 150, 200		4-20	AK 200 C420L	planned
Vc	Supply voltage (Loo	p powered)	24	V DC
R_L	Load resistance	see po	wer supply diagram	
V_{b}	Rated voltage (CAT)	III, PD2)	150	V AC
V_{d}	RMS Isolation voltage	ge test, 50 Hz, 1mn	3	kV AC
f	Frequency bandwith		20-100	Hz

Accuracy - Dynamic performance data

Χ	Accuracy @ I _{PN} , T _A =25°C	± 1	%
t_{r}	Response time @ 90% of I _{PN}	< 300	ms

	General data		
т	Ambient energting temperature (0.05% DLI)	20 .50	°C
I _A	Ambient operating temperature (0-95% RH)	-20+50	-0
T_{s}	Ambient storage temperature	-20+85	°C
m	Mass	120	g
	Safety	IEC 61010-1	
	EMC	EN 61326	

Note: 1) For 4-20mA output model, no saturation output up to 25 mA.

Features

- AC sinusoïdal Measurement
- Average responding
- Current output
- Loop powered transducers
- Panel mounting
- Accurate
- Jumper selectable ranges

Advantages

- Large aperture
- High isolation between primary and secondary circuits
- Easy to mount

Applications

- Automation systems
 Analog current reading for remote monitoring (e.g. motor).
- Data loggers
 Self-powered transducer does not drain data logger batteries.
- Panel meters
 Simple connection displays power consumption.

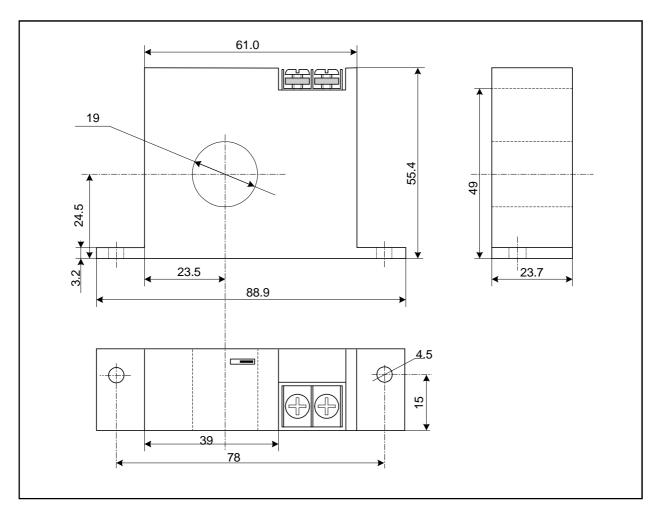
Options on request

• DIN mounting



Dimensions AK-C420L

(unit: mm, 1mm = 0.0394 inch)



Mechanical characteristics

• General tolerance ± 1 mm

• Primary aperture 19 mm

Panel mounting2 holes Ø 4.5mm

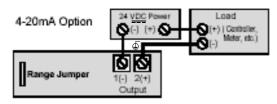
Distance between holes 78 mm

Remark

• Temperature of the primary conductor should not exceed 60°C.

Connections

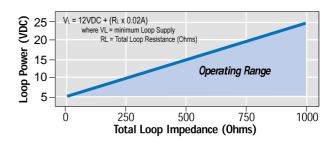
• 2 x UNC8 Cylindric Head



Notes: - Captive screw terminals.

- 12-22 AWG solid or stranded.
- Observe polarity.

Power Supply diagram



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LEM reserves the right to carry out modifications on its transducers, in order to improve them, without previous notice.