<u>LEM</u>

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.







Electrical data

Primary Nominal Current I _{PN} (A.t.RMS)	Analogue Output Sig I _{ou⊤} (mA)	nal ¹⁾ Type	RoHS 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 (Loc	p powered)	24	V DC
R _L Load resistance	see pov	ver supply diagram	
V _b Rated voltage (CAT	III, PD2)	150	V AC
V RMS Isolation volta	ge test, 50 Hz, 1mn	3	kV AC
f Frequency bandwith	Frequency bandwith		Hz

Accuracy - Dynamic performance data

Х	Accuracy @ I _{PN} , T _A =25°C	± 1	%
t _r	Response time @ 90% of $I_{_{PN}}$	< 300	ms

General data °C T_A Ambient operating temperature (0-95% RH) -20..+50 °C T_s Ambient storage temperature -20..+85 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.

I_{PN} = 2 ... 200 A



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

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Dimensions AK-C420L

(unit : mm, 1mm = 0.0394 inch)



Mechanical characteristics

± 1 mm

19 mm

78 mm

2 holes Ø 4.5mm

- General tolerance
- Primary aperture
- Panel mounting
 Distance between holes

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.