

# AC Current transducer AK-C420L

$I_{PN} = 2 \dots 200 \text{ A}$

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 Signal <sup>1)</sup> $I_{OUT}$ (mA)	Type	RoHS Date Code
2, 5	4-20	<b>AK 5 C420L</b>	MAY 2006
10, 20, 50	4-20	<b>AK 50 C420L</b>	MAY 2006
100, 150, 200	4-20	<b>AK 200 C420L</b>	planned

  

$V_c$	Supply voltage (Loop powered)	24	V DC
$R_L$	Load resistance	see power supply diagram	
$V_b$	Rated voltage (CAT III, PD2)	150	V AC
$V_d$	RMS Isolation voltage test, 50 Hz, 1mn	3	kV AC
$f$	Frequency bandwidth	20-100	Hz

## Features

- AC sinusoidal 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

## Accuracy - Dynamic performance data

X	Accuracy @ $I_{PN}$ , $T_A=25^\circ\text{C}$	$\pm 1$	%
$t_r$	Response time @ 90% of $I_{PN}$	< 300	ms

## General data

$T_A$	Ambient operating temperature (0-95% RH)	-20..+50	$^\circ\text{C}$
$T_S$	Ambient storage temperature	-20..+85	$^\circ\text{C}$
m	Mass	120	g
	Safety	IEC 61010-1	
	EMC	EN 61326	

**Note:** <sup>1)</sup> For 4-20mA output model, no saturation output up to 25 mA.

## 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

