

AC Current transducer AK-C420L G

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

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 ¹⁾ I_{OUT} (mA) | Type |
|--|--|-----------------------|
| 2,5 | 4-20 | AK 5 C420L G |
| 10,20,50 | 4-20 | AK 50 C420L G |
| 100,150,200 | 4-20 | AK 200 C420L G |
| 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 R.m.s 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

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

Accuracy - Dynamic performance data

| | | | |
|-------|--|---------|----|
| X | Accuracy @ I_{PN} , $T_A=25^\circ C$ | ± 1 | % |
| t_r | Response time @ 90% of I_{PN} | < 300 | mS |

General data

| | | | |
|-------|--|-------------|----|
| T_A | Ambient operating temperature (0-95% RH) | -20..+50 | °C |
| T_S | Ambient storage temperature | -20..+85 | °C |
| m | Mass | 90 | g |
| | Safety | IEC 61010-1 | |
| | EMC | EN 61326 | |

Applications

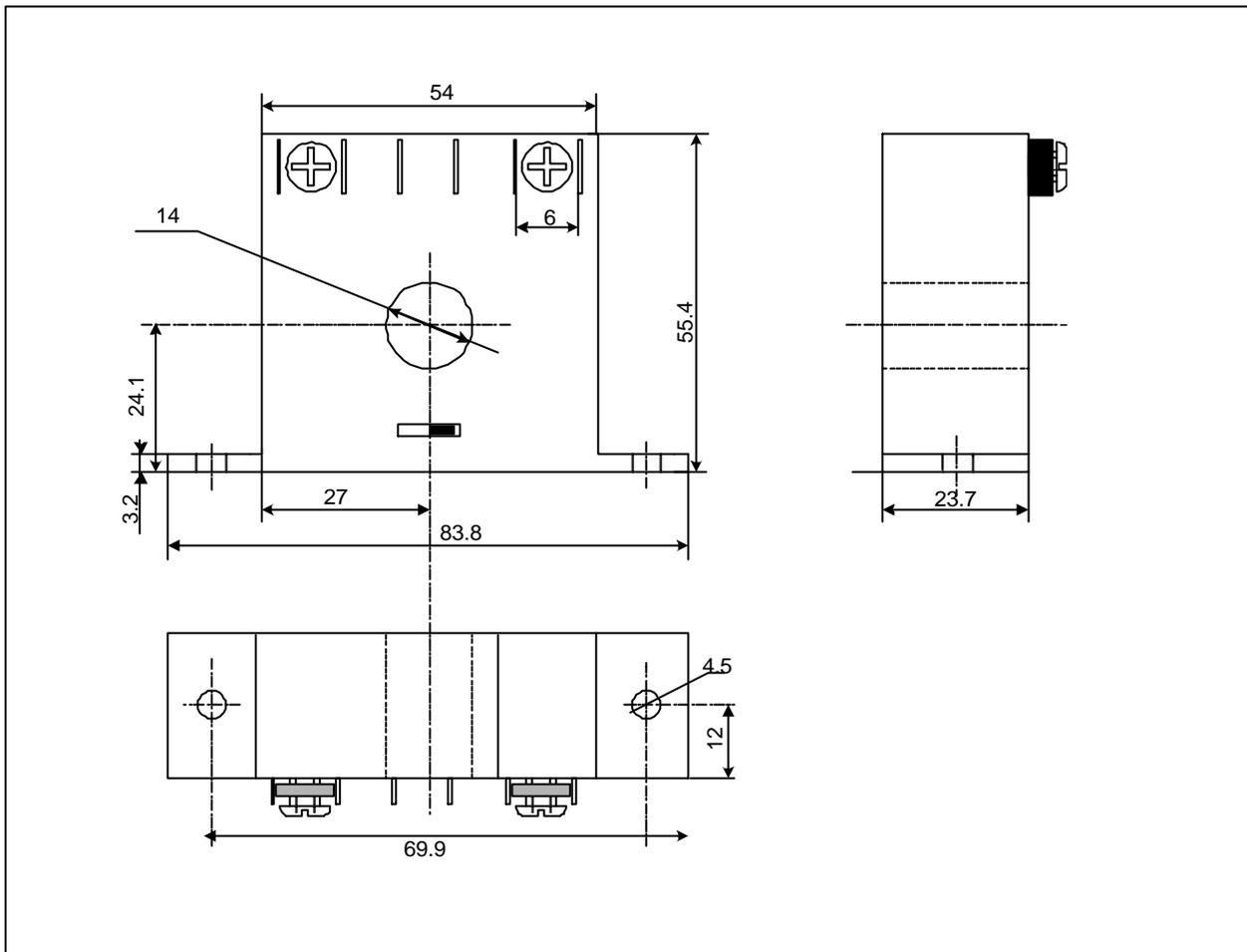
- Automation systems
Analog current reading for remote monitoring (e.g. motor)
- Data loggers
Self-powered transducer does not drain data logger batteries.
- Panel meters
Simple connection displays power consumption.

Options on request

- DIN mounting

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

Dimensions AK-C420L G (unit : mm, 1mm = 0.0394 inch)

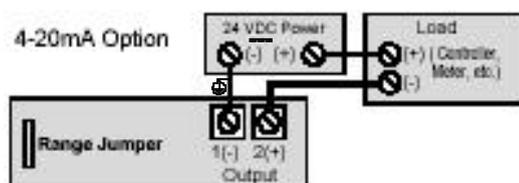


Mechanical characteristics

- General tolerance ± 1 mm
- Primary aperture 14 mm
- Panel mounting 2 holes $\varnothing 4.5$ mm
Distance between holes 69.9 mm

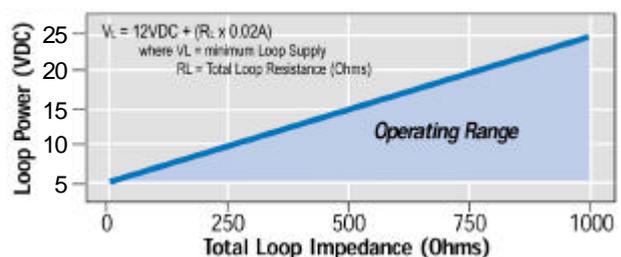
Connections

- 2 x UNC8 Cylindric Head



Notes: - Captive screw terminals.
- 12-22 AWG solid or stranded.
- Observe polarity.

Power Supply diagram



Remark

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