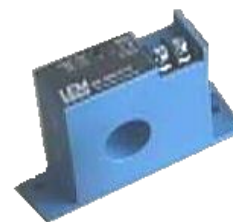


## AC Current transducer AK-C-

$$I_{PN} = 10 \dots 200 \text{ A}$$

Transducer for the electronic measurement of AC sinusoidal waveforms, with galvanic isolation between the primary (High power) and the secondary circuits (Electronic circuit). Jumper selectable ranges and self powered transducers.



### Electrical data

Primary Nominal Current	Analogue Output Signal <sup>1)</sup>	Type	RoHS Date code
$I_{PN}$ (A.t.RMS)	$V_{OUT}$ (V DC)		
10,20,50	5	<b>AK 50 C5</b>	planned
10,20,50	10	<b>AK 50 C10</b>	MAY 2006
100,150,200	5	<b>AK 200 C5</b>	planned
100,150,200	10	<b>AK 200 C10</b>	JUNE 2006

V <sub>c</sub>	Supply voltage	Self Powered
R <sub>L</sub>	Load resistance	1 MΩ
V <sub>b</sub>	Rated voltage (CAT III, PD2)	150 V AC
V <sub>d</sub>	RMS Isolation voltage test, 50 Hz, 1mn	3 kV AC
f	Frequency bandwidth	50-60 Hz

### Features

- AC sinusoidal measurement
- Average responding
- Self powered transducers
- Panel mounting
- Voltage output
- 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 <sub>r</sub>	Response time @ 90% of $I_{PN}$	< 100	mS

### 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.

### General data

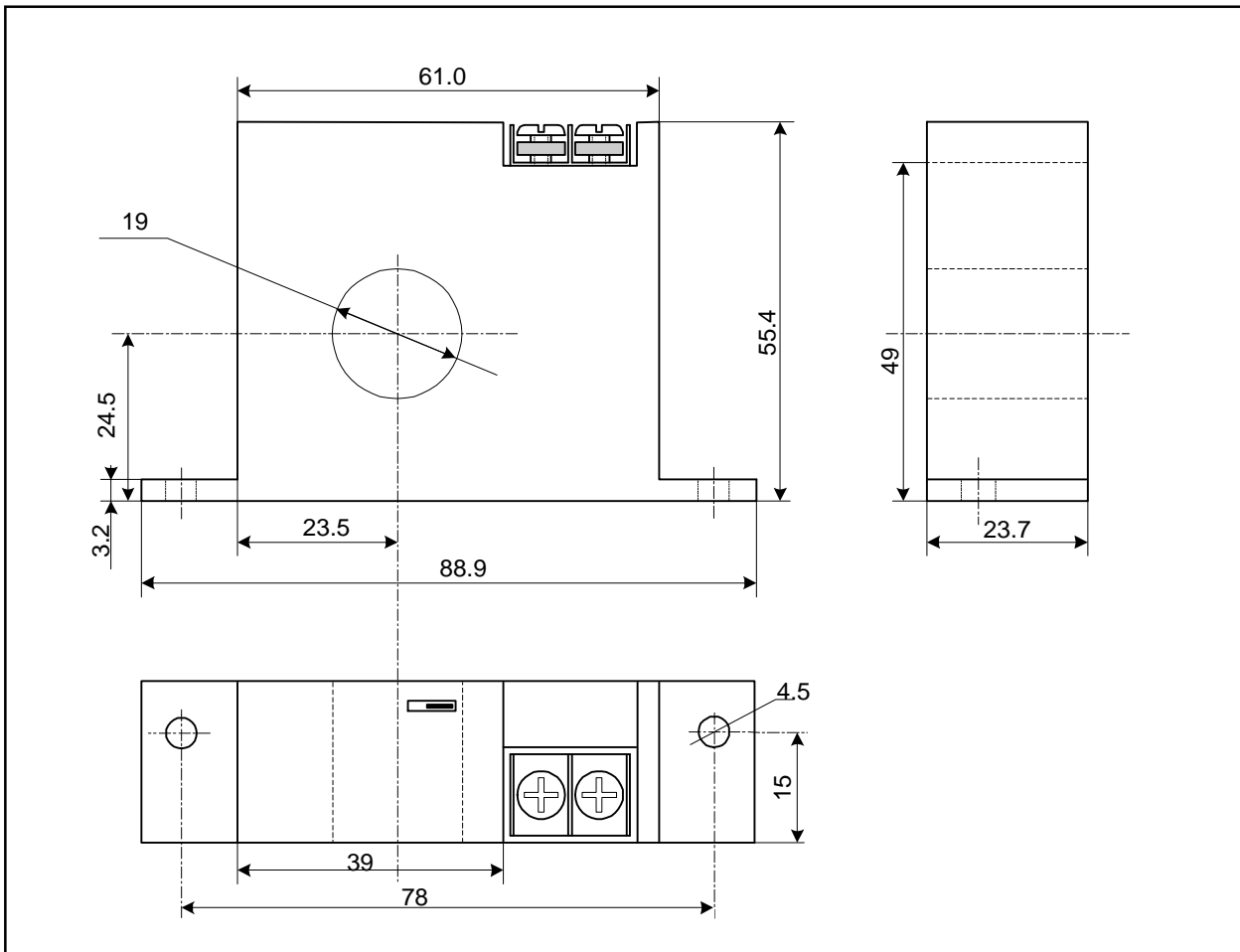
T <sub>A</sub>	Ambient operating temperature (0-95% RH)	- 20 ..+ 50	°C
T <sub>S</sub>	Ambient storage temperature	- 20 ..+ 85	°C
m	Mass	120	g
	Safety	IEC 61010-1	
	EMC	EN 61326	

**Note :** <sup>1)</sup> For 0-5 V output model, no saturation output up to 8.2 V and for 0-10 V output model, no saturation output up to 15 V.

### Options on request

- DIN mounting

**Dimensions AK-C-** (unit : mm, 1mm = 0.0394 inch)



**Mechanical characteristics**

- General tolerance  $\pm 1$  mm
- Primary aperture 19 mm
- Panel mounting 2 holes  $\varnothing 4.5$ mm
- Distance between holes 78 mm

**Remark**

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

**Connections**

- 2 x UNC8 Cylindric Head

