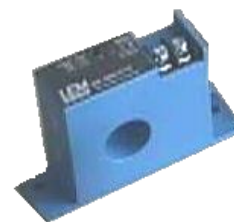


## AC Current transducer AK-C-

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

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

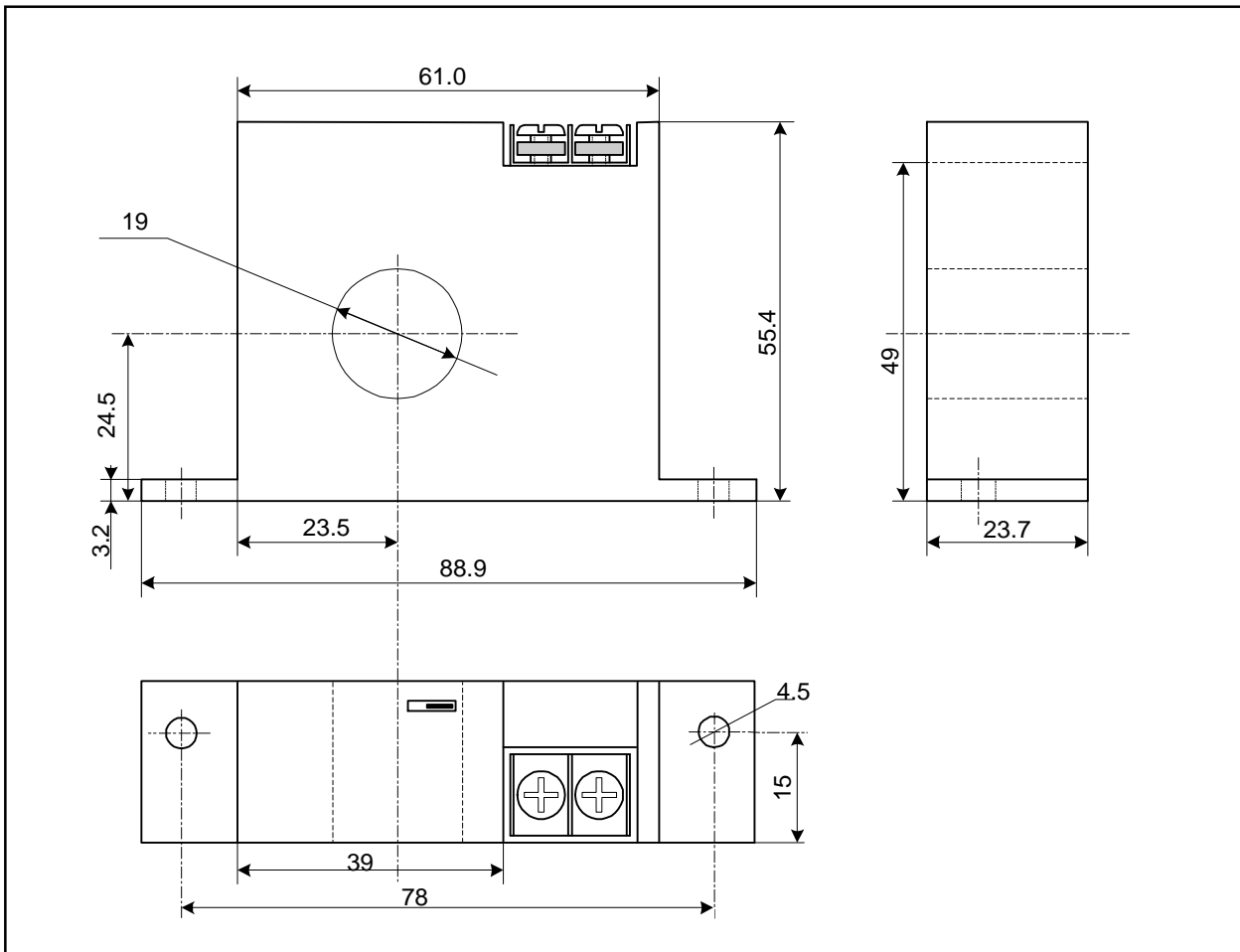
|                |  |             |    |
|----------------|--|-------------|----|
| T <sub>A</sub> | Ambient operating temperature (0-95% RH) | - 20 ..+ 50 | °C |
| T <sub>S</sub> | Ambient storage temperature              | - 20 ..+ 85 | °C |
| m              | Mass                                     | 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

