



Sense  
Measure  
Control

# Model KAT Triaxial Low Bandwidth Accelerometer

- **Miniature Size**
- **$\pm 2$  to  $\pm 10g$  Range**
- **0 to 20 Hz Bandwidth**
- **Ruggedized Construction**
- **3 Axes of Measurement**
- **$\pm 20000g$  Over Range**



The KAT Series of triaxial accelerometers are designed for true inertial measurements on race vehicles or automotive test vehicles.

The use of low bandwidth sensing elements ensures that high frequency vibration from transmission components or similar do not affect the measurements. Therefore allowing only lower frequency components to be detected and measured.

The sensors offer 3 axes of measurement with integral signal conditioning to give a standard signal of 0.5 to 4.5V which is ideal for most data acquisition systems.

Different ranges can be fitted to each axis. Customisation of the accelerometer is possible to suit complex applications.

Supply voltage can be 5V or 8-16V and low current consumption of less than 35mA.

**Typical applications include: track mapping, cornering, braking, suspension test, aero performance, lean angle, structural analysis, launch control.**

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KA Sensors is a dynamic company with over 30 years of sensor and instrumentation experience in the motorsport industry. We offer a strong engineering led service to all of our customers, with speed of response and confidentiality being paramount.

Please contact us for further expert assistance with your application.

Process Measurement & Controls, Inc.- 11 Old Sugar Hollow Road – Danbury – CT 06810 - USA

Tel: 203-792-8686

Fax: 203-743-2051

Email: sales@pmc1.com

Web: www.pmc1.com

KAT.1012U

## Specifications

- **Range: ±g**  
Standard ranges: 2, 5, 7.5, 10
- **Bandwidth**  
20Hz
- **Resonant Frequency**  
5 kHz
- **Safe Over Range**  
±20000g
- **Accuracy**  
<±1% FS linearity
- **Cross axis sensitivity**  
<±1% FS (±5% for >20g)
- **Thermal Effects**  
Zero: ±0.0075% FS/°F  
Sensitivity: 0.0075% of reading / °F
- **Output**  
0.5V to 4.5V (offset 2.5V)
- **Supply**  
5V (±0.5V) ratiometric or 8-16Vdc
- **Operating Temperature Range**  
-4°F to +212°F
- **Compensated Temperature Range**  
68°F to +212°F
- **Noise**  
>1mg/VHz
- **Construction**  
Black Anodised Aluminum,
- **Electrical Connection**  
20", 55spec, 26AWG Cable +DR25 Sleeve
- **Protection Class**  
IP66
- **EMC Protection**  
EN 50082-1
- **Weight**  
1.02oz (excluding cable)
- **Options**  
Connector fitted  
Package size  
Part Number Labelling

KA/PMC adopts a continuous development program which sometimes necessitates specification changes without notice

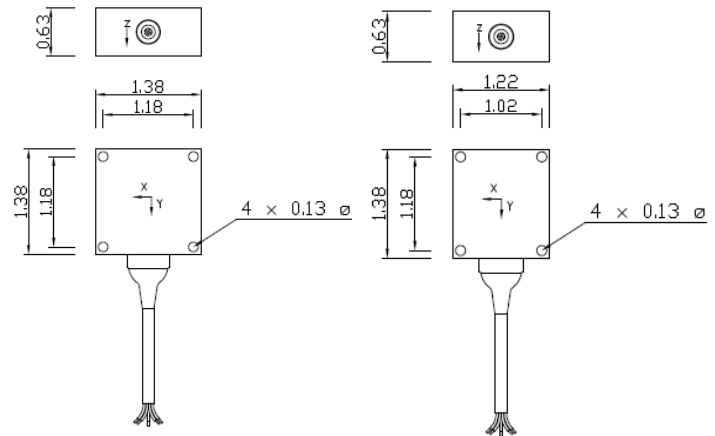
## How to Order

- Please provide information as below:

	KAT	0 0 0 /	0 /	0 /	0 0 0	0
<b>Range ±g</b>		2	0 2 0			
		5	0 5 0			
		7.5	0 7 5			
		10	1 0 0			
<b>Supply</b>	5V			A		
	8-16V			B		
<b>Number of Axis</b>		2			2	
		3			3	
<b>Cable Length</b>	20"				0 2 0	
	40"				0 4 0	
<b>Package Size</b>	KAT1					1
	KAT2					2

## Standard Configuration

Dimensions in inches



## Other Products

- **KA Sensors offer a wide range of products and services to the Motorsport Industry.**
- **Sensors:** Pressure, Force, Torque, Temperature, Acceleration, Displacement, Angle, Speed
- **Other capabilities:** Telemetry, data logging, Electronics design, Controls, Wiring. Please contact us for additional information.

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