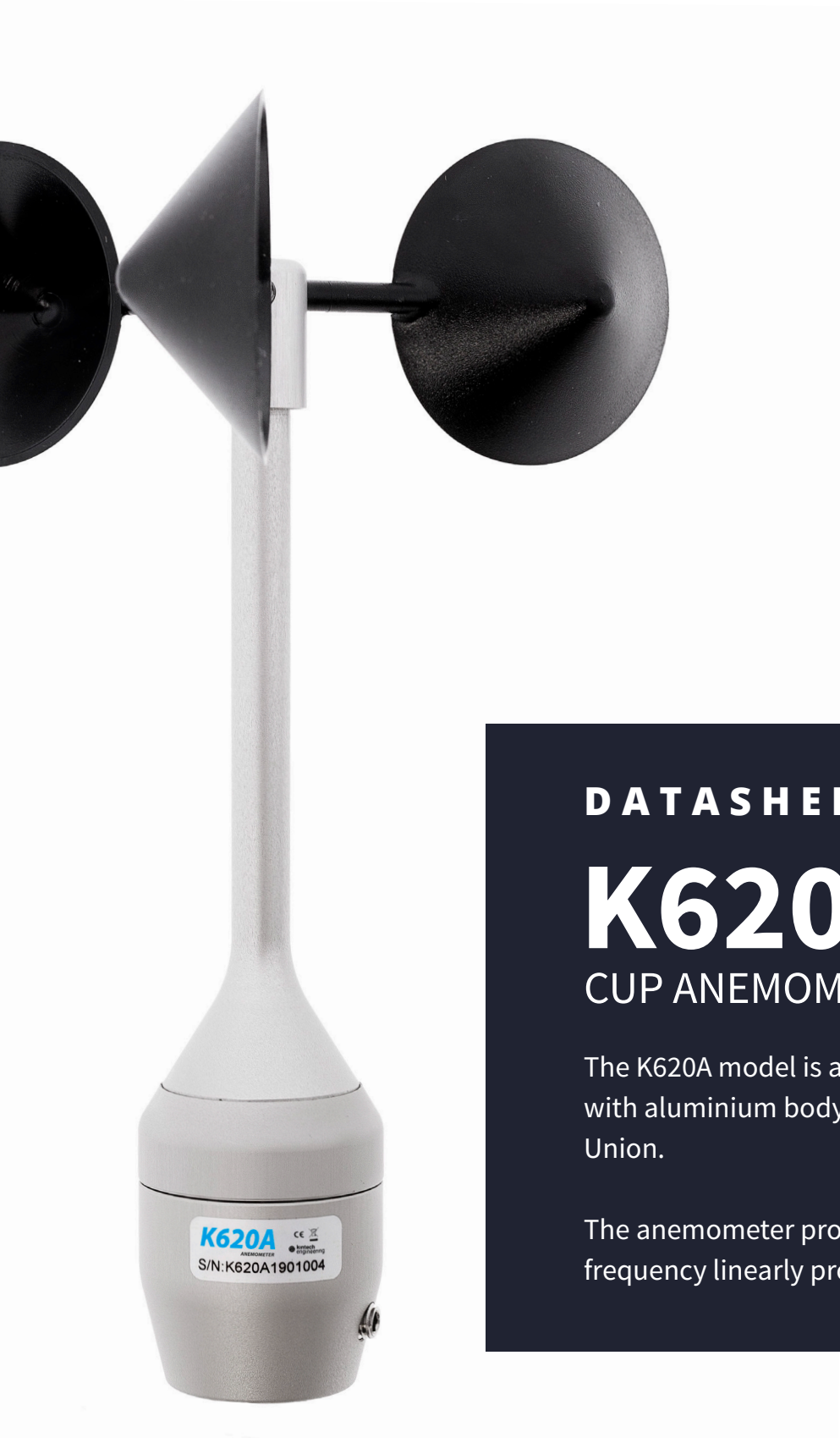




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**DATASHEET**

# K620A

CUP ANEMOMETER

The K620A model is a high quality cup anemometer with aluminium body manufactured in the European Union.

The anemometer provides a low level AC sine wave and frequency linearly proportional to the wind speed.

## K620A | CUP ANEMOMETER

### DESCRIPTION

The K620A anemometer is specially designed to be sensible to the horizontal component of the wind and without any power consumption. The body is made of high quality anodized aluminium and the cups are made of resistant polycarbonate. It is designed for mounting on 25 mm (or 1") diameter tube.

The K620A is supplied with a factory calibration with wind speeds between 4-16 m/s in accordance with Measnet recommendations. The anemometer can be supplied with a Measnet calibration.

### APPLICATIONS

Wind resource assessment, solar resource assessment, meteorology, environmental monitoring.

### FEATURES

#### Electrical characteristics

Output signal	Low level AC sine wave, frequency linearly proportional to wind speed
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#### Sensor compatibility

Compatible with	Orbit 360, EOL Zenith, all NRG loggers, Ammonit, Campbell
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#### Transfer function

Equation	$V(\text{m/s}) = 0,62 * f (\text{Hz}) + 0,26$
Linearity (typical error)	< 0,025 m/s
Regression coefficient (r)	0,99999
Starting threshold	< 0,3 m/s
Distance delay	1,7 m
Uncertainty	@10 m/s 0,10 m/s @16 m/s 0,16 m/s

#### Operating range

Sensor range	0,3 to 60 m/s
Temperature	-50 to +60 °C
Humidity	0 to 100 % RH

#### Physical dimensions

Weight	0,185 kg
Height	207 mm
Body diameter	39,5 mm
Rotor diameter	156 mm

#### Materials

Cups	Injection molded polycarbonate
Body	Corrosion resistant anodized aluminium
Bearing	Highly resistant ball bearings

**Note 1:** Values obtained following the ASTM D 5096-02 standard.

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# K620A | CUP ANEMOMETER

## Installation



Mounting	Onto a 25mm tube
Connection	4 pin aviation plug
Cable recommendation	Signal cable 2x0.5 mm2 + shield
Tools required	3 mm allen wrench, electrical tape

*Note 2: Male to Female Aviation Connector Socket*

## SENSOR WIRING TABLE

Sensor Model	Sensor Pin		Kintech Colors	Orbit 360			Eol Zenith	
				Input	Symbol	Input	Symbol	
	Shield		Yellow-Green		GND		GND	GND
	1	Reference	Brown	Frequency Channels	Plug No. 2	-	Anemometer Inputs	-[1]
	2	Signal	White	Frequency Channels	Plug No. 1	FRQ 1	Anemometer Inputs	1
	3	N/A						
	4	N/A						

*Note 3: Base sensor view / Soldering connector view*

### HOW TO CONFIGURE IN ATLAS

Open Atlas and go to the data logger you are working on. Scroll to the “channels” section and select the following type and model:

- Group: Frequency channels
- Sensor Type: Anemometer
- Sensor Model: **K620A**

### HOW TO CONFIGURE IN EOL MANAGER

Open EOL Manager and go to the data logger you are working on. Open the “inputs” tab and select the following type and model:

- Group: Anemometers/Frequency
- Type: Anemometer
- Model: **K620A**

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For more information please contact [support@kintech-engineering.com](mailto:support@kintech-engineering.com) or visit our website [www.kintech-engineering.com](http://www.kintech-engineering.com)

