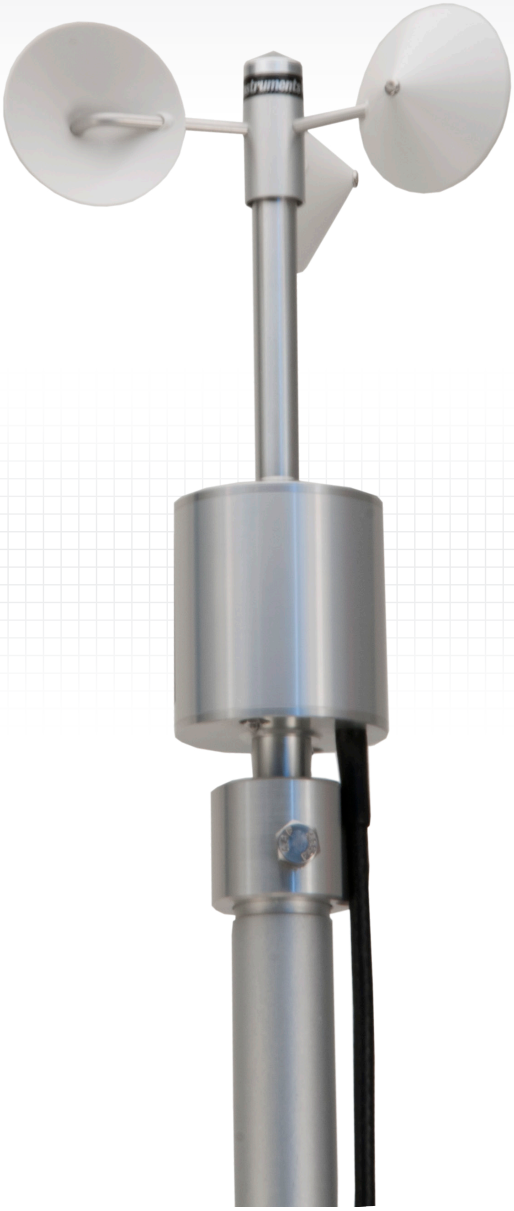
CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

A100LK

Class 1 Anemometer



IEC Class 1 performance

Ideal for wind energy applications

Overview

The A100LK is an anemometer for general meteorology and for wind-energy surveys. Its low power consumption and wide power-supply range make it popular for remote locations with no access to ac power, and its pulse/frequency signal is ideal for use with Campbell Scientific dataloggers. It is used as part of our WMS100 wind-monitoring system.

Rotation of the A100LK's three-cup rotor is electronically converted to pulse output signals proportional to wind speed. The A100LK produces a higher rate of pulses per revolution (up to 13) compared to relay based sensors, making it suitable for wind surveying where turbulence needs to be estimated.

Benefits and Features

- IEC Class 1 performance
- Low Power
- High rate of pulses per revolution produced makes it suitable for wind surveying applications where turbulence is estimated
- Constructed from anodized aluminum alloys, stainless steel, and weather resistant plastics for long life
- Bearings protected from the entry of moisture droplets and dust, resulting in an instrument suitable for permanent exposure to the weather

Ordering Information

Anemometer	
A100LK-L	Vector Anemometer Sensor with user-specified length. Enter length, in feet, after the -L. Must choose a cable termination option (see below).

Cable Termination Options (choose one)	
-PT	Cable terminates in stripped and tinned leads for direct connection to a datalogger's terminals.
-PW	Cable terminates in a connector for attachment to a prewired enclosure.

Common Accessories	
27739	Mounting Pipe.

Specifications

- Threshold: 0.15 ms^{-1} (starting speed 0.2 ms^{-1}, stopping speed 0.1 ms^{-1})
- Maximum speed: 77.22 ms^{-1}
- Accuracy: 1% ±0.1 ms^{-1}
- Distance Constant: 2.3 m ±10%
- Calibration Data: Supplied for anemometer and rotor at one test speed to an accuracy of ±1% at +15°C, 12 Vdc supply and an analog output load of 1 MΩ
- Temperature Range: -30° to +70°C
- Height: 19.5 cm (7.68 in)
- Case Diameter: 5.5 cm (2.2 in)
- Rotor: 15.2 cm (6 in) diameter three-cup rotor
- Weight: 490 g (17.3 oz) including 3 m (10 ft) cable
- Supply Voltage: 6.5 to 28 Vdc
- Current Consumption: 2 mA maximum, 1.6 mA typical (no output load)
- Power-up Time: 5 s
- Surge Protection: Vector PC3L2 anti-surge module fitted

A100LK mounted to a crossarm via the CM220 bracket.