

# ZOGLAB

- Measuring range 0.5 ~ 65m/s, maximum tolerance  $\pm 0.5\text{m/s}$
- Built-in precision signal processing unit
- New photoelectric coupling design, featured with high sensitivity and high dynamic response
- Support pulse signal output and online calibration
- Support RS485 digital signal output
- Compact all-aluminum body with anti-freeze and heating function



## WSS100 Wind Speed Sensor

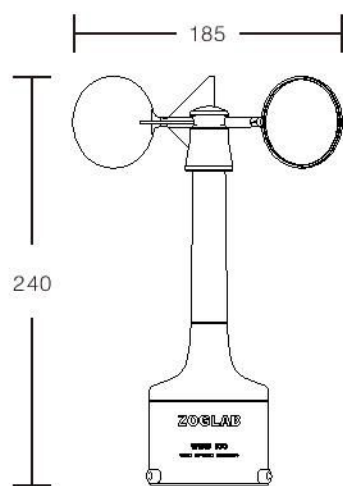
WSS100 Wind Speed Sensor adopts a rotating chopper disc, which cuts the infrared sensor 45 times per one rotation, measuring resolution up to 0.1m/s, the maximum tolerance  $\pm 0.5\text{m/s}$ , and the output signal can be directly connected to the data acquisition system through RS485 or photoelectric isolation pulses. It can be widely used in meteorology, ocean, environment, airport, port, agriculture, transportation and other fields.

WSS100 is compact and exquisite in shape, featured with robust wind cups, an unique aero-cone design and efficient heating method, suitable for all kinds of harsh environments.

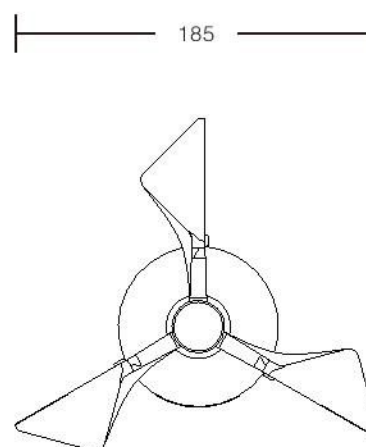
## Technical Specifications

Measuring range	0.5~65m/s
Starting threshold	< 0.5m/s
Characteristic transfer function	$U=0.031 \times R+0.3$ (U=wind speed[m/s], R=output pulse frequency [Hz], scale factor 0.031 and background value 0.3 can be modified by command)
Accuracy	With characteristic transfer function $\pm 0.2$ m/s With simple transfer function $\pm 0.5$ m/s (U=0.03 x R)
Resolution	$\pm 0.031$ m/s
Outer diameter of the mounting pole mast	50mm/52mm
Operating power	$U_{in}=5\sim 24$ VDC 20mA (typical value)
Heating power	12VDC 1A (nominal value)
Output	RS485, Photoelectric isolation pulse
Output level	high state $\approx U_{in}$
	low state $\approx 0$ V
Operating temperature when heating	-50 ~55 °C (-58~131 °F)
Storage temperature	-60~70 °C (-76~158 °F)
Material	Housing: aluminum alloy
	Wind cup: black glass fiber nylon
Dimensions	240 (H) x 182 (Ø) mm
Swept radius of wind cup	64mm
Wind cup diameter	54mm
Weight	500g
Certificates	CE

### Dimensions(mm)



Front view



Top view