# **Propeller Anemometer**

### **Features**

- Precision wind speed measurement
- Tach-generator output
- Optional photochopper transducer single or dual direction available

## Description

The Model WS-27106 Propeller Anemometer is a precision air speed measuring instrument.

The four blade helicoid propeller drives a miniature tach-generator. Output voltage is directly proportional to the axial component of the wind speed. Signal polarity Indicates direction of propeller rotation.

The WS-27106 Propeller Anemometer is also available with single or dual direction photochopper transducer.

The WS-27106 Propeller Anemometer is especially suited for measuring the vertical wind component.

## Signal Output

#### **Standard Tach-Generator**

Analog DC voltage proportional to wind component Polarity indicates direction 1800RPM (500mV) = 8.8m/s (22kph)

## **Optional Photochopper transducer**

Voltage pulse with frequency proportional to wind component

Amplitude approx. equal to supply voltage minus 2V 10 pulses per revolution

1800RPM (300Hz) = 8.8m/s (22kph)

Order Codes		
	Model	Signal Output
	WS-27106	Tach-Generator
	WS-27106D	Single direction photochopper
	WS-27106F	Dual direction photochopper
	For WS-08254 CFT propeller	add "T" to model number



# **Specifications**

WS-27106 with WS-08274

expanded polystyrene (EPS) propeller (standard)

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Range	0 to 25m/s (0 to 90kph)	
Threshold	0.3m/s	
Distance Constant	1.0m	
Propeller diameter	22cm	
Propeller Pitch	29.4cm wind passage per	
	revolution	

#### WS-27106 with WS-08254

Range

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## carbon fibre thermoplastic propeller (CFT)

Threshold	0.4m/s	
Distance Constant	2.1m	
Propeller diameter	20cm	
Propeller Pitch	30.0cm wind passage per	
	revolution	
General Specifications		
Power requirements	Tach-generater model	

0 to 35m/s (0 to 125kph)

Power requirements	Tach-generater model self powered Photochopper models require 10-14VDC (12mA at 12V)
Dimensions	Overall length = 43cm, housing dia = 2.5cm, mounts on 3/4" pipe
Weight	0.5kg (shipping 1.8kg)

WS27106-1.2-0

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