WS-05305 Wind Monitor-AQ

Air Quality Sensor

The model WS-05305 Wind Monitor-AQ has been designed specifically as a high resolution wind sensor for air quality measurements.

The sensor is based on the very successful Wind Monitor (model WS-05301) with the same attention to materials and reliability that characterise the R.M. Young products.

The sensor include a junction box and mounting for a standard 34mm pipe.



SPECIFICATIONS:

Range:

0-40m/s (144 km/hour) Speed:

gust survival 45m/s (162 km/hour)

mechanical: 360° Direction:

electrical: 355°

Accuracy:

Speed: 0.2m/s (0.7 km/hr)

Direction:

Threshold:

Speed: 0.4m/s (1.4 km/hr) Direction: 0.5m/s (1.8 km/hr) at 10°

Dynamic Response:

Speed: Propeller distance constant - 2.1m.

Direction: Vane delay distance - 1.2m.

Damping ratio: 0.45

Signal Output:

Speed:

AC sine wave, 3 pulse/rev. 1800 rpm (90Hz) = 8.8 m/s (31. km/hr)

Analog DC voltage from $10 K\Omega$ conductive plastic potentiometer with DC excitation Direction:

Output signals also available as 4-20mA or 0-1VDC analog outputs. 0-5VDC output is available as an option.

Power Requirements:

WS-05305 15V DC maximum pot. excitation

WS-05305L 8-30V DC (40mA max.)

WS-05305V 8-24V DC (5mA at 12V DC)

ORDERING INFORMATION: Model Description			
WS-05305	Wind Monitor-AQ sensor for Air Quality measurements Speed output is an AC frequency and the vane output is from a $10K\Omega$ potentiometer		
WS-05305L*	measurement	Wind Monitor-AQ sensor for Air Quality measurement Outputs are 4-20mA DC full scale	
WS-05305V*	Wind Monitor-AQ sensor for Air Quality measurement Outputs are 0-1V DC full scale 0-5V DC optional		
* Specify suffix	for desired wind s 0-50 m/s	Add suffix "M"	
	0-100 mph 0-100 knots 0-200 km/hr	Add suffix "P" Add suffix "N" Add suffix "K"	

For example: WS-05305LM specifies a sensor with 4-20mA

output scaled for 0-50 m/s.