

WMS301 Wind Speed and Direction Sensor and 43519 Wind Speed Sensor

The WMS301 Wind Speed and Direction sensor, made in Finland, is used in MEA Automatic Weather Stations and custom designed weather stations. It has a reputation for reliable and accurate performance.



The WMS301 is a compact and economical, mechanical sensor. The rotating cups at the top of the instrument provide a linear response to wind speed.

The vane, which is attached to the body of the sensor, provides a fast response to wind direction.

The cups and vane are made from reinforced PA plastic which guarantees a rigid structure even at the highest wind speeds. The electronics are located inside an anodised aluminium core which creates a firm body and a watertight enclosure, protecting against water, dust and pollutants.

For applications which require the measurement of



wind speed only, MEA uses the German made ThiesClima 43519 compact sensor.

The sensor body has an anodised aluminium housing and the cupset is made of non corroding plastic.

Specifications

	WMS301 wind speed	WMS301 wind direction	43519 wind speed
Measurement range	0.5 to 60 metres/second	0 to 355 degrees	0.5 to 50 metres/second
Starting threshold	<0.4 metres/second	1.0 metres/second	<0.5 metres/second
Accuracy	± 0.3 metres/second	Better than ± 3 degrees	± 0.5 metres/second
Distance constant	2 metres		Not available
Damping ratio		0.3	
Operating temperature	-40 deg C to +55 deg C	-40 deg C to +55 deg C	-30 to +70 deg C