

Wind Monitor

IM511CD

IM512CD

05103L

85106


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The Wind Monitor combines wind speed and wind direction. It is constructed of a four blade helicoid propeller for high accurate wind speed measurement with integrated wind direction sensor.

Range	
<i>Wind speed</i>	0-100 m/s (224 mph)
<i>Azimuth</i>	360° mechanical, 355° electrical (5° open)
Accuracy	
<i>Wind speed</i>	±0.3 m/s (0.6 mph) or 1% of reading
<i>Wind direction</i>	±3 degrees
Threshold	
<i>Propeller</i>	1.0 m/s (2.2 mph)
<i>Vane</i>	1.1 m/s (2.4 mph)
Dynamic Response	
<i>Propeller distance constant (63% recovery)</i>	2.7 m (8.9 ft)
<i>Vane delay distance (50% recovery)</i>	1.3 m (4.3 ft)
<i>Damping ratio</i>	0.3
<i>Damped natural wavelength</i>	7.4 m (24.3 ft)
<i>Undamped natural wavelength</i>	7.2 m (23.6 ft)
Output	RS 485
Power Requirement	
Potentiometer excitation	15 VDC maximum
Dimensions	
<i>Overall height</i>	37 cm (14.6 in)
<i>Overall length</i>	55 cm (21.7 in)
<i>Propeller</i>	18 cm (7 in) diameter
<i>Mounting</i>	34 mm (1.34 in) diameter (standard 1 inch pipe)
Weight	
Sensor weight	1.0 kg (2.2 lbs)
Part.no. 05103L	RM Young wind monitor (speed/direction) with gust system and LI battery
Part.no. 05103-45	RM Young wind monitor (speed/direction) with gust system and LI battery (alpine version)