

Technical specifications for the cellular controller and the ultrasonic anemometer

Cellular weather station

Voltage	3.3V – 4.25V (18650 li-ion batteries 1 to 4)
Current	~10ma @ 4V (at 5min post interval)
Solar cell max current	200ma
Post intervals	1min – 2min – 5min - 10min - 30min (selectable)
Data report	Wind speed wind min wind gust (3second moving average) wind max (max wind recorded at 5 measurements per second) Wind direction Temperature
Dimensions	Cellular controller box 158mm X 90mm X 60mm

Ultrasonic anemometer

Sample rate	5 per second
Temp. range	-20C - 45C
Wind speed	
Range	0 – 60m/s 0 – 116knots 0 – 134mph 0 - 216km/hr
Starting threshold	0.1 m/s
Resolution	0.1 m/s
Accuracy	0 - 10 m/s +/- 0.1 m/s 10 – 30 m/s +/- 0.25 m/s 30 – 60 ms +/- 0.5 m/s

Wind direction

Range	0 – 360 degrees
Resolution	+/- 0.1 degrees
Accuracy	+/- 0.1 degrees
Dimensions	~ 80mm X 80mm