4. SPECIFICATION

	WindMaster	WindMaster Pro	
Outputs			
Output rate Sample rate (automatically selected) Units of measure Format Averaging	1, 2, 4, 8, 10, 16, 20, (32 option) Hz 32 or 40 Hz m/s, mph, KPH, knots, ft/min UVW or Polar Flexible 0 - 3600 s	1, 2, 4, 8, 10, 16, 20, 32 Hz 32 or 40 Hz m/s, mph, KPH, knots, ft/min UVW or Polar Flexible 0 - 3600 s	
Wind Speed			
Range Resolution Accuracy (12 m/s) (Standard)* Accuracy (12 m/s) (to special order)* #	0 - 45 m/s 0.01 or 0.001 m/s < 1.5% RMS < 1.0 % RMS	0 - 65 m/s 0.01 or 0.001 m/s < 1.5% RMS < 1.0 % RMS	
Direction			
Range Resolution Accuracy (12 m/s) (Standard)* Accuracy (12 m/s) (to special order)* #	$0 - 359.9^{\circ}$ $1^{\circ} \text{ or } 0.1^{\circ}$ 2° 0.5°	0 - 359.9° 1 ⁰ or 0.1 ⁰ 2° 0.5°	
Speed of Sound			
Range Resolution Accuracy Power requirement	300 -370 m/s 0.01 m/s < ± 0.5% @ 20°C 9 -30 V dc, (55 mA @ 12 V dc) (excluding analogue outputs)	300 -370 m/s 0.01 m/s < ± 0.5% @ 20 °C 9 -30 V dc, (55 mA @ 12 V dc) (excluding analogue outputs)	

Digital output			
Protocol (ASCII and Binary)	RS232, RS422, RS485 network up to 8 anemometers	RS232, RS422, RS485 network up to 8 anemometers	
Baud rates	2400 - 57600	2400 - 57600	
Analogue outputs (optional)			
4 channels	Resolution 12 or 14 bit	Resolution 14 bit	
Selectable range	User selectable full scale wind speed	User selectable full scale wind speed	
Output type	0-20 mA, 4-20 mA, 0-5V, ±5V, ±2.5V	0-20 mA, 4-20 mA, 0-5V, ±5V, ±2.5V	
Analogue inputs (optional)			
Up to 4 single-ended or 2 differential	Resolution 12 or 14 bit	Resolution 14 bit, plus PRT 1000hm (option)	
Input range	±5 V	±5 V	
Sonic temperature			
Range	-40 °C to +70 °C	-40 °C to +70 °C	
PRT			
Resolution	Not Applicable	0.01°C	
Measurement Accuracy	Not Applicable	<±0.1 °C (-40 to +50°C)	
Measurement Accuracy	Not Applicable	<±0.15°C (+50 to +70°C	
General			
Weight	1.0 kg	1.7 kg	
Size	750 mm x 240 mm	750 mm x 240 mm	
Environmental	IP65	IP65	
Precipitation EMC	Emissions BS EN 61000 - 6 - 3 Immunity	Emissions BS EN 61000 - 6 - 3 Immunity	
Operating temperature Humidity Precipitation EMC	-40 °C to +70 °C < 5 % to 100 % Operation up to 300 mm / hour Emissions BS EN 61000 - 6 - 3 Immunity BS EN 61000 - 6 - 2	-40 °C to +70 °C < 5 % to 100 % Operation up to 300 mm / hour Emissions BS EN 61000 - 6 - 3 Immunity BS EN 61000 - 6 - 2	

* Accuracy specification applies for wind speed up to range maximum, and for wind incidence up to \pm 30 ° from the horizontal.

Custom calibration (to be specified when ordering, or unit can be returned for calibration) - Wind tunnel calibration is in accordance with ISO 16622 and traceable to national standards.