

SPECIFICATION

Physical	Dimensions	122mm x 42mm x 20mm	
	Cover dimensions	122mm x 46mm x 26mm	
	Weight	65g	
	Cover weight	37g	
	Lanyard	0.5m	
	Case colour	Maroon	
Display	Display type	Reflective 3½ digit LCD	
	Digit height	9mm	
	Display update	1 second	
	Functions	Current wind speed (3 second average)	
		Average speed since power on (AVG)	
		Maximum 3 second gust since power on (MAX)	
		Temperature	
		Wind chill	
		Relative humidity	
		Heat Index	
	Dew point		
Data hold (HOLD)			
Speed units	kt, m/s, km/h, mph, ft/min, Beaufort Force (B)		
Temperature units	°C, °F		
Performance	Speed (1 sec response)	Operational range	0.4m/s to 60m/s (0.8 to 135.0mph)
		Specification range	0.4m/s to 40m/s (0.8 to 89.0mph)
		On axis accuracy	Larger of ± 3% of reading or least significant digit. (Some loss of accuracy from bearing wear may occur with sustained operation at or near maximum speed)
		Off-axis response	-1% @ 5°, -2% @ 10°, -3% at 15°
		Calibration drift	<1% after 100hrs operation at 7m/s
		Resolution	0.1 kt, m/s, km/h, mph. 1 FPM below 1999 FPM, 10 FPM above 2000 FPM. 1 Beaufort (0 to 12)
	Temperature (1 sec response)	Operational range	-45.0°C to +125.0°C
		Specification range	-29.0°C to +70.0°C
		Accuracy	±1°C
		Resolution	0.1°
	Relative Humidity (1 min response)	Wind chill accuracy	±1.0°C (from wind speed and temperature)
		Operational range	0% to 100%
		Specification range	5% to 95% non-condensing
		Resolution	0.1%
		Accuracy	±3% (when unit allowed to equilibrate to external temperature)
		Calibration drift	±2% over 24 months (correctable)
	Heat index accuracy	±2°C (between 21.1°C and 54.4°C)	
Dew point accuracy	±2°C (above 20% relative humidity)		
Sensors	Impeller	Diameter 25mm. High precision axle and jewel (sapphire) bearings. User replaceable impeller assembly	
	Temperature	Thermally isolated, hermetically sealed precision thermistor	
	Relative Humidity	Polymer capacitive sensor, mounted externally in thin-walled chamber	
	Sealing	Electronics enclosure IP67 [Water resistant]	
Environmental	Shock	Drop tested (MIL-STD.810F - unit only)	
	Temperature	Operating range: -10°C to +55°C (for LCD readability and batteries) Storage range: -30°C to +60°C	
	EMC	CE marked	
	Battery	Lithium coin cell CR2032, included, user replaceable	
Miscellaneous	Battery Life	300 hours of use, typical ± depending on backlight use	
	Auto switch off	45 minutes after last key press	
	Cover	Snap on hard cover for protection	
	Wind chill equivalent temperature calculation	Utilises the (US) NWS Wind Chill Temperature (WCT) Index, revised 2001, with wind speed adjusted by a factor of 1.5 to yield equivalent results for wind speed measured at 10m above ground	
	Heat Index calculation	Steadman, from temperature and relative humidity	
	Certification	Wind speed, temperature and humidity measurements are tested during manufacture. A certificate of conformity (C of C) is included with each Kestrel. Calibration certificates are available for an additional fee.	
	Guarantee	5 years	