

Weather monitoring in the palm of your hand

The Kestrel 4000 Pocket Weather Tracker with PC interface covers your data logging requirements at KS2 and KS3. Accurate, robust and easy to use.



The Weather Tracker is very easy to use.



The Weather Tracker comes complete with PC interface software, cradle, tripod mount and serial lead.

Measures:

- Current, maximum and average wind speed
- Temperature, wind chill, heat index and wet bulb temperature
- Barometric pressure
- Relative humidity
- Altitude and density altitude

All with time and date.

Accurate rapid response sensors, backlit screen, graphical displays with three display modes.

Capture time-stamped microclimate data for up to 250 points as you walk around your school grounds or field study area

or

set up the Weather Tracker to record environmental data for chosen intervals at one site. Tripod attachment included.

Download your weather data in CSV file format ready to go into Excel or for mapping microclimate in AEGIS 3.

Price

£335 plus VAT including P & P in UK.



**The Advisory Unit
Computers in Education**

Order from:
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Hatfield, Herts AL10 9AB

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Features and Specifications

Wind Speed

Accuracy: $\pm 3\%$. Response Time: 1 second.
Calibration Drift: $< 2\%$ after 100 hours use at 7m/s

Units	Display	Resolution	Range
Knots	KTS	0.1	0.6 to 78
Metres per Second	M/S	0.1	0.3 to 40
Kilometres per Hour	KM/H	0.1	1.0 to 144
Miles per Hour	MPH	0.1	0.7 to 89
Feet per Minute	FPM	1	59 to 7877
Beaufort Force	BEAU	1	1 to 16

Temperature

Accuracy: Temperature: $\pm 1^\circ\text{C}$, Wind Chill: $\pm 1^\circ\text{C}$,
Dew Point: $\pm 2^\circ\text{C}$, Heat Index: $\pm 3^\circ\text{C}$.
Response Time: approximately 1 minute for most conditions.

Units	Display	Resolution	Range
Celsius	$^\circ\text{C}$	0.1	-29 to 70
Fahrenheit	$^\circ\text{F}$	0.1	-20 to 158

Relative Humidity

Accuracy: $\pm 3\%$. Response Time: Approx. 1 minute.
Calibration Drift: $\pm 2\%$ over 24 months (can be field calibrated)

Units	Display	Resolution	Range
Percent	%	0.1	5 to 95%

Barometric Pressure

Accuracy: $\pm 3\text{hPa}$ (between -10°C and 60°C).
Calibration Drift: $\pm 1\text{hPa}$ over 12 months (can be field calibrated)

Units	Display	Resolution	Range
hectoPascal (mb)	hPa	0.1	870.0 to 1080.0
Inches Mercury	inHg	0.01	25.70 to 31.90

Altitude, Density Altitude

Units	Display	Resolution	Range
Metres	M	1	-500 to 9000
Feet	FT	3	-1600 to 30000

Display

Update	1 second
Temperature Range	Normal operation from -20°C to 60°C Storage Temperature 30°C to 60°C
Auto Shutdown	After 15 minutes of no button presses. (This feature can be disabled.)

Physical

Battery	Two AAA alkaline batteries (included).
Impeller	25 mm. diameter, sapphire bearings, light weight. User-replaceable impeller/housing assembly.
Temperature Sensor	Hermetically sealed precision thermistor.
Humidity Sensor	Solid state silicon capacitive sensor.
Pressure Sensor	Monolithic silicon piezoresistive sensor.
Dimensions	12.7 x 4.5 x 2.8 cm.
Weight	102 g.
Sealing	Water resistant. Electronics enclosure IP65 standard
Shock	Drop tested to 1m.
Battery life	50 hours with unit on and backlit; one year unit off but still datalogging once a hour; 250 hours with unit on and backlight off.
EMC	CE marked
Accessories	Wrist and neck lanyards, hard cover for the wind speed impeller, soft carry pouch.

Data storage

Datalogging	Programmable 2 sec to 2 hour intervals or manual storage; 250 data points.
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P C Interface

Software	Kestrel Pocket Weather Tracker Upload application v. 1.7. Windows 3.1 or higher
Serial cable	9 pin serial connections
Cradle	With optical connectors to Weather Tracker
Tripod mount	Standard tripod connection

Guarantee	12 months parts and labour
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