## Kestrel® Pocket Weather Meters Specifications

Measurement Response Time	Model	Units	Maximum Range	Resolution	Accuracy (+/-)	Specification Range
		mph	0.8 to 135.0 mph	1	3% +0.1/-0.3 mph	8.5 to 89.0 mph 0.8 to 8.5 mph
		ft/min	59 to 11,880 ft/min	1	3%	750 to 7832 ft/min
Wind Speed (Air Velocity)	All Models		·		+10/-30 ft/min 3%	70 to 750 ft/min 13.7 to 143.2 km/h
1 second		km/h	1.0 to 217.3 km/h	0.1	+0.1/-0.3 km/h	1.3 to 13.7 km/h
		m/s	0.4 to 60.0 m/s	0.1	3% +0.1/-0.3 m/s	3.8 to 40.0 m/s 0.4 to 3.8 m/s
		knots	0.6 to 117.3 kt	0.1	3%	7.4 to 77.0 kt
		Beaufort	0.0 to 177.3 kt	1	+0.1/-0.3 kt	0.6 to 7.4 kt 0 to 12 B
		is accuracy -1% @	5º off-axis; -2% @ 10º; -3% @ 15º. Calibration	drift < 1% after 100	. –	/ 7 m/s. Sustained operation above 60 MPH / 27 m/s
will wear impeller rapidly and may cause of	destruction of impeller. Replace	ment impeller (NK cfm	PN-0801) may be field-installed without tools (US 0 to 99,999 cfm	Patent 5,783,753).		0 to 99,999 cfm
Air Flow	Kido	m³/h	0 to 99,999 m <sup>3</sup> /h	1	Dependent upon	0 to 99,999 cm <sup>3</sup> /h
1 second		m³/m m³/s	0 to 99,999 m³/m	0.1	accuracy of duct measurement.	0 to 99,999 m <sup>3</sup> /m 0.0 to 9,999.9 m <sup>3</sup> /s
		L/s	0.0 to 9,999.9 m <sup>3</sup> /s 0 to 99,999 L/s	1		0.0 to 9,999.9 tr/s 0 to 99,999 L/s
· · · · · · · · · · · · · · · · · · ·	measurement and user-specifie		e or rectangle) and dimensions (units: in, ft, cm of			
Temperature 1 second	200 250 300 350 100 1100	°F °C	-49.0 to 257.0 °F -45.0 to 125.0 °C	0.1	1.8 °F 1.0 °C	-20.0 to 158.0 °F -29.0 to 70.0 °C
Measures air, water and snow temperatur		ally sealed, precisi				E: See "Functional Temperature Limits" below for
further temperature range information.  Relative Humidity						
1 minute	3000 3500 4000 4100	%RH	0.0 to 100.0 %	0.1	3.0 %RH	5.0 to 95.0 % non-condensing
			gas-permeable membrane. Second thermistor in id, accurate response (US Patent 6,257,074). Ke			
chamber to speed RH response (patent prapid temperature changes and must be s	ending). To achieve stated relat	ive humidity accur ibration drift +/- 2%	acy, airflow over temperature sensor must be mai b over 24 months. Relative humidity may be recal	intained or unit mus ibrated at factory or	t be permitted to equi in field using Kestrel	librate to external temperature when exposed to large Humidity Calibration Kit (NK PN-0824).
Pressure 1 second	10° 10° 10°	inHg hPa / mb	8.86 to 32.48 inHg 300.0 to 1100.0 hPa / mb	0.01	0.05 inHg 1.5 hPa / mb	At 77.0 °F, <19,700 ft At 25.0 °C, <6,000 m
(mb & PSI 4000 model only)	J2, 32, 17,	PSI	4.4 to 16.0 PSI	0.1	0.1 PSI	At 77.0 °F, <19,700 ft
Monolithic silicon piezoresistive pressure may be recalibrated at factory or in field.	sensor with second-order tempe	rature correction.	Maximum error beyond specified temperature, +/	- 0.09 inHg / 3.0 hP	<ul> <li>Calibration drift type</li> </ul>	ically -0.03 inHg / -1.0 hPa per year. Pressure senso
Altitude		ft	-6000 to 30000 ft	1	50 ft	At 77.0 °F, <19,700 ft. Max error +/- 98 ft
1 second	7500 3500 kana	m	-2000 to 9000 m	1	15 m	At 25.0 °C, <6,000 m. Max error +/- 30 m
Temperature compensated pressure (bare	ometric) altimeter.					
Wind Chill 1 second	and the standard standard standard	°F °C	0.7 to 135.0 MPH, -49.0 to 257.0 °F 0.4 to 60.0 m/s, -45.0 to 125.0 °C	0.1 0.1	1.8 °F 1.0 °C	1.8 to 89.0 mph, -50.0 to 50.0 °F 0.4 to 40 m/s, -45.6 to 10.0 °C
			/S Wind Chill Temperature (WCT) Index, revised	2001, with wind spe	ed adjusted by a fact	or of 1.5 to yield equivalent results to wind speed
measured at 10 m above ground. (Specif	ication temperature limits establi	°F	0.0 to 100.0 %RH, -49.0 to 257.0 °F	0.1	3.6 °F	70.0 to 130.0 °F, 0 to 100% RH
1 minute	300,350,400,400	°C	0.0 to 100.0 %RH, -45.0 to 125.0 °C	0.1	2.0 °C	21.1 to 54.4 °C, 0 to 100 %RH
Calculated from the primary measuremen	ts of temperature and relative hu	ımidity. Utilizes th	e NWS Heat Index (HI) tables. (Specification tem	perature limits esta	blished by HI tables.)	
Dewpoint 4 minute	300 350 400 4.00	°F °C	0.0 to 100.0 %RH, -49.0 to 257.0 °F 0.0 to 100.0 %RH, -45.0 to 125.0 °C	0.1 0.1	3.6 °F 2.0 °C	-20.0 to 158.0 °F, 20.0 to 95.0% RH -29.0 to 70.0 °C, 20.0 to 95.0 %RH
1 minute Calculated from the primary measuremen			ure to which the air would need to be cooled at a			-29.0 to 70.0 °C, 20.0 to 95.0 %KH
Wet Bulb Temperature		°F	-49.0 to 257.0 °F, 0.0 to 100.0 %RH, 8.86 to 32.48 inHg	0.1	3.6 °F	32.0 to 100.0 °F, 5.0 to 95.0% RH, 8.86 to 32.48 inHg, <19700 ft
1 minute	300 3500 1000	°C	-45.0 to 125.0 °C, 0.0 to 100.0 %RH,	0.1	2.0 °C	0.0 to 37.8 °C, 5.0 to 95.0 %RH,
Calculated from the primary measuremen	ts of temperature, relative humid		300.0 to 1100.0 hPa Equivalent to temperature indicated by a wet bulb			-2000.0 to 9000.0 hPa, <6000 m
Density Altitude	•	ft	-49.0 to 257.0 °F, 0.0 to 100.0 % RH, 8.86 to 32.48 inHa	1	246	32.0 to 100.0 °F, 5.0 to 95.0 %RH,
1 second	Maga	m	-45.0 to 125.0 °C, 0.0 to 100.0 %RH,	1	75	8.86 to 32.48 inHg, <19700 ft 0.0 - 37.8 °C, 5.0 to 95.0 %RH,
Calculated from the primary measuremen	ts of temperature, relative humid	lity and pressure.	300.0 to 1100.0 hPa Air density converted to equivalent sea level eleve	ation at the Internat	ional Standard Atmos	-2000 to 9000 hPa, <6000 m phere.
Max / Average						
	All Models	One-button clear	and restart of Max Wind Gust and Average Wind	I measurement.		
Wind Speed (Air Velocity) Pressure Trend			and restart of Max Wind Gust and Average Wind dating three-hour barometric pressure trend indicates the state of the state		ising, steady, falling,	falling rapidly.
Pressure Trend	2500 3500	Continuously upo	dating three-hour barometric pressure trend indication and average logging for every measured value.	ator: rising rapidly, r	ogger with user-settal	ble data storage interval from 2 seconds to 12 hours.
		Continuously upo Minimum, maxim Manual data cap	dating three-hour barometric pressure trend indication and average logging for every measured value.	ator: rising rapidly, rue. Automatic data l	ogger with user-settal	ole data storage interval from 2 seconds to 12 hours.  ore 480 data sets for memory capacity of 16 minutes t
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Pressure Trend  Data Storage / Display  Data Upload  Display  Display Update  Display Backlight  Clock / Calendar	2500 3500  4000 4100  4000 4100  1000 2000 3000  2500 3500  4000 4100  All Models  2000 2500 3000 3500  4000 4100  2500 3500 4000 4100	Continuously upo Minimum, maxim Manual data cap 240 days. Code Requires optione Reflective 3 1/2 c Reflective 4 digit Multifunction, mu 1 second. Choice of aviatio Choice of aviatio Real-time hours: Real-time hours: Real-time hours are aviationed and aviationed av	dating three-hour barometric pressure trend indica  rum and average logging for every measured valuture. Graphical display of stored data with detail  version 4.10 and higher store 2000 data sets for a  IPC interface (NK PN-0830) and provided softwa  digit LCD. Digit height 0.36 in / 9 mm.  LCD. Digit height 0.36 in / 9 mm.  Ltd-digit programmable dot-matrix display.  In green or red-filtered (2500/3500NV models) ele  run green or red-filtered (4000NV model) electrolum  minutes clock.  minutes:seconds clock, calendar, automatic leap- display and batteries will not function below 14 °  taken beyond these functional limits, to the limits  run perature extremes for the minimum time necessi	ator: rising rapidly, rule. Automatic data I review. Code versic memory capacity of are. RS-232 connect controluminescent backlight.  The control of the con	ogger with user-setta ons 4.09 and lower st off minutes to 1000 d dtion with USB adapte cklight. Automatic or manua age to both may res onges listed above, by	ole data storage interval from 2 seconds to 12 hours.  re 480 data sets for memory capacity of 16 minutes tays.  r available.  activation.  ult if the unit temperature exceeds 131 °F / 55 °C.  maintaining the unit within these functional limits and
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Pressure Trend Data Storage / Display Data Upload Display Display Update Display Backlight Clock / Calendar Functional Temperature Limits Storage Temperature Auto Shutdown Languages Certifications	2500 3500  4000 4100  4000 4100  1000 2000 3000  2500 3500  4000 4100  All Models  2000 2500 3500  4000 4100  All Models  All Models  2000 2500 3000 3500  4000 4100  All Models  All Models  2000 2500 3000 3500  4000 4100  All Models  2000 2500 3000 3500	Continuously upo Minimum, maxim Manual data cap 240 days. Code Requires options Reflective 4 digit Multifunction, mt. 1 second. Choice of aviatio Choice of aviatio Real-time hours: Real-time hours: The liquid crystal Readings may be exposing it to ter -22 °F to 140 °F After 45 minutes User-selectable: User-selectable: CE certified. Ind CR2032, one, in AAA Alkaline, tw	dating three-hour barometric pressure trend indica  rum and average logging for every measured valuture. Graphical display of stored data with detail  version 4.10 and higher store 2000 data sets for a  IPC interface (NK PN-0830) and provided softwa  digit LCD. Digit height 0.36 in / 9 mm.  LCD.	ator: rising rapidly, in the Automatic data in review. Code version memory capacity of are. RS-232 connect are. RS-232 connect are are are are as a connect are are are as a connect are are a connect are are a connect are are a connect are are a connect are a connect are are a connect are are a connect are a c	ogger with user-setta ons 4.09 and lower st 66 minutes to 1000 d dtition with USB adapte  cklight.  Automatic or manual age to both may res anges listed above, by g (30 seconds to 1 min s available at addition e.	ple data storage interval from 2 seconds to 12 hours.  re 480 data sets for memory capacity of 16 minutes to ays.  r available.  activation.  ult if the unit temperature exceeds 131 °F / 55 °C. maintaining the unit within these functional limits and unte).
Pressure Trend Data Storage / Display Data Upload Display Display Update Display Backlight Clock / Calendar Functional Temperature Limits Storage Temperature Auto Shutdown Languages Certifications Batteries	2500 3500  4000 4100  1000 2000 3000 2500 3500 4000 4100 All Models 2000 2500 3000 3500 4000 4100 All Models	Continuously upo Minimum, maxim Manual data cap 240 days. Code Requires options Reflective 3 1/2 of Reflective 4 digit Multifunction, m. 1 second. Choice of aviatio Choice of aviatio Real-time hours: The liquid crystal Readings may be exposing it to ter -22 °F to 140 °F After 45 minutes User-selectable: English, French, CE certified. Ind CR2032, one, in AAA Alkaline, tw Waterproof (IP67 Unit 4.8 x 1.7 x 0	dating three-hour barometric pressure trend indica  rum and average logging for every measured valus  ture. Graphical display of stored data with detail  reversion 4.10 and higher store 2000 data sets for it  I PC interface (NK PN-0830) and provided softwat  igit LCD. Digit height 0.36 in / 9 mm.  LCD. Digit height 0.36 in / 9 mm.  Lti-digit programmable dot-matrix display.  In green or red-filtered (2500/3500NV models) elect  run green or red-filtered (4000NV model) electrolum  minutes clock.  minutes:seconds clock, calendar, automatic leap- display and batteries will not function below 14 °1  taken beyond these functional limits, to the limits  reperature extremes for the minimum time necess:  7-30 °C to 60 °C.  of no key presses.  15 or 60 minutes with no keypresses or disabled  German, Italian, Spanish.  vidually tested to NIST-traceable standards (writt  cluded. Average life, 300 hours of use, +/-depenc  o, included. Average life, 400 hours of use, +/-depenc  o, included. Average life, 400 hours of use, +/-depenc  o, included. Average life, 400 hours of use, +/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o, included. Average life, 400 hours of use, -/-depenc  o,	ator: rising rapidly, in the Automatic data a review. Code version memory capacity of are. RS-232 connect are. RS-232 connect are are are a connect are are a connect are are a connect	ogger with user-settal  ons 4.09 and lower state  66 minutes to 1000 d  ctition with USB adapte  cklight.  Automatic or manual  age to both may ress  anges listed above, by  g (30 seconds to 1 minutes  s available at addition  e.  state  st	ole data storage interval from 2 seconds to 12 hours.  re 480 data sets for memory capacity of 16 minutes to ays.  r available.  activation.  ult if the unit temperature exceeds 131 °F / 55 °C. maintaining the unit within these functional limits and nute).  all charge).
Pressure Trend Data Storage / Display Data Upload Display Display Update Display Backlight Clock / Calendar Functional Temperature Limits Storage Temperature Auto Shutdown Languages Certifications Batteries Environmental	2500 3500  4000 4100  1000 2000 3000 2500 3500 4000 4100  All Models 2000 2500 3000 3500 4000 4100  All Models  2000 2500 3000 3500 4000 4100  All Models  2000 2500 3000 3500 4000 4100  All Models  2000 2500 3000 3500 4000 4100  All Models  2000 2500 3000 3500 4000 4100  All Models	Continuously upo Minimum, maxim Manual data cap 240 days. Code Requires options Reflective 3 1/2 c Reflective 4 digit Multifunction, m. 1 second. Choice of aviatio Real-time hours: Real-time hours: The liquid crystal Readings may be exposing it to ter -22 °F to 140 °F After 45 minutes User-selectable: English, French, CE certified. Ind CR2032, one, in AAA Alkaline, tw Waterproof (IP67 Unit 4.8 x 1.7 x 0 Unit 5.0 x 1.8 x 1	dating three-hour barometric pressure trend indica  rum and average logging for every measured valuture. Graphical display of stored data with detail in  version 4.10 and higher store 2000 data sets for it  PC interface (NK PN-0830) and provided softwat  digit LCD. Digit height 0.36 in / 9 mm.  LCD. Digit height 0.36 in / 9 mm.  Ltdi-digit programmable dot-matrix display.  In green or red-filtered (2500/3500NV models) electrolum  minutes clock.  minutes:seconds clock, calendar, automatic leap- display and batteries will not function below 14 °  taken beyond these functional limits, to the limits  preature extremes for the minimum time necessard  7-30 °C to 60 °C.  of no key presses.  15 or 60 minutes with no keypresses or disabled  German, Italian, Spanish.  vidually tested to NIST-traceable standards (writt  cluded. Average life, 300 hours of use, +/-dependo, included. Average life, 400 hours of use, +/-de  estandard). Unit drop-tested to 4.2 ft / 128 cm (Mi	ator: rising rapidly, in the Automatic data a review. Code version memory capacity of are. RS-232 connect are. RS-232 connect are are are a connect are are a connect are are a connect	ogger with user-settal  ons 4.09 and lower state  66 minutes to 1000 d  ctition with USB adapte  cklight.  Automatic or manual  age to both may ress  anges listed above, by  g (30 seconds to 1 minutes  s available at addition  e.  state  st	ole data storage interval from 2 seconds to 12 hours.  re 480 data sets for memory capacity of 16 minutes to ays.  r available.  activation.  ult if the unit temperature exceeds 131 °F / 55 °C. maintaining the unit within these functional limits and nute).  all charge).