Kestrel® Pocket Weather Meters Specifications

Response Time	Model	Units	Maximum Range	Resolution	Accuracy (+/-)	Specification Range
.,		m/s	0.4 to 60.0 m/s	0.1		0.4 to 40.0 m/s
Wind Spood		ft/min	59 to 11,948 ft/min	1		59 to 7877 ft/min
Wind Speed	25				Larger of	
(Air Velocity)	AllModels	km/h	1.0 to 218.0 km/h	0.1	3% of reading	1.0 to 144.0 km/h
1 second	Alla	mph	0.8 to 135.0 mph	1	or least	0.8 to 89.0 mph
	v	knots	0.6 to 118.3 kt	0.1	significant digit	0.6 to 78.0 kt
	la and escabias benefate Off au	Beaufort	0 to 12 B	0.1		0 to 12 B
					hours use at 16 MPH	/ 7 m/s. Sustained operation above 60 MPH / 23
		cfm	0 to 99,999 cfm	1		0 to 99,999 cfm
Air Flow		m³/h	0 to 99,999 m ³ /h	1	Dependent upon	0 to 99,999 m ³ /h
1 second	r'oo	m³/m	0 to 99,999 m ³ /m	1	accuracy of duct	0 to 99,999 m ³ /m
				0.1	measurement.	
		m³/s	0.0 to 9,999.9 m ³ /s			0.0 to 9,999.9 m ³ /s
Automatically calculated from Air Velocity	measurement and user-specifie	L/s d duct shape (circ	0 to 99,999 L/s le or rectangle) and dimensions (units: in, ft, cm	1 or m). Maximum du	ct dimension input: 25	0 to 99,999 L/s 8.0 in / 21.5 ft / 655.3 cm / 6.55 m.
Temperature		°F	-49.0 to 257.0 °F	0.1	1.8 °F	-20.0 to 158.0 °F
1 second	200250030035004004100	°C	-45.0 to 125.0 °C	0.1	1.0 °C	-29.0 to 70.0 °C
Measures air, water and snow temperature further temperature range information.		ally sealed, precisi	on thermistor mounted externally (US Patent 5,9	39,645). Calibration	drift negligible. NOTE	: See "Functional Temperature Limits" below
Relative Humidity						
1 minute	300,3500,000,100	%RH	0.0 to 100.0 %	0.1	3.0 %RH	5.0 to 95.0 % non-condensing
			id, accurate response (US Patent 6,257,074). (T direct sunlight.) Calibration drift +/- 2% over 24 r			
Calibration Kit (NK PN-0824).						
Pressure		inHg	8.86 to 32.48 inHg	0.01	0.05 inHg	At 77.0 °F, <19,700 ft
1 second	2500 3500 400	hPa / mb	300.0 to 1100.0 hPa / mb	0.1	1.5 hPa / mb	At 25.0 °C, <6,000 m
(mb & PSI 4000 model only)	· · · · · · · · · · · · · · · · · · ·	PSI	PSI	0.1	PSI	At 77.0 °F, <19,700 ft
Monolithic silicon piezoresistive pressure	sensor with second-order tempe		Maximum error beyond specified temperature, +		-	
may be recalibrated at factory or in field.						
Altitude	0 0 0	ft	-6000 to 30000 ft	1	50 ft	At 77.0 °F, <19,700 ft. Max error +/- 98 ft
1 second	25003500 k000	m	-2000 to 9000 m	1	15 m	At 25.0 °C, <6,000 m. Max error +/- 30 n
Temperature compensated pressure (bar		· I	L		I	
Wind Chill	an an an an an an	°F	0.7 to 135.0 MPH, -49.0 to 257.0 °F	0.1	1.8 °F	1.8 to 89.0 mph, -50.0 to 50.0 °F
1 second	200 250 300 350 400 4100	°C	0.4 to 60.0 m/s, -45.0 to 125.0 °C	0.1	1.0 °C	0.4 to 40 m/s, -45.6 to 10.0 °C
			VS Wind Chill Temperature (WCT) Index, revised	2001, with wind spe	ed adjusted by a facto	r of 1.5 to yield equivalent results to wind speed
measured at 10 m above ground. (Specif	ication temperature limits establi	shed by WCT Tab	bles.)			
Heat Index	an an an	۴F	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 4100	°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
	ts of temperature and relative bu	midity. Litilizes th	e NWS Heat Index (HI) tables. (Specification ter			
		· · · · · · · · · · · · · · · · · · ·				
Dewpoint	300,500,000,100	۴F	0.0 to 100.0 %RH, -49.0 to 257.0 °F	0.1	3.6 °F	-20.0 to 158.0 °F, 20.0 to 95.0% RH
1 minute		°C	0.0 to 100.0 %RH, -45.0 to 125.0 °C	0.1	2.0 °C	-29.0 to 70.0 °C, 20.0 to 95.0 %RH
Calculated from the primary measurement	its of temperature and relative hu	midity. Temperat	ure to which the air would need to be cooled at a	constant pressure to	become saturated.	
			-49.0 to 257.0 °F, 0.0 to 100.0 %RH,			32.0 to 100.0 °F, 5.0 to 95.0% RH,
Wet Bulb Temperature	200,500,000	°F	8.86 to 32.48 inHg	0.1	3.6 °F	8.86 to 32.48 inHg, <19700 ft
1 minute	30° 35° W	°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	ots of temperature, relative humin	ity and pressure	300.0 to 1100.0 hPa Equivalent to temperature indicated by a wet bul	h psychrometer		-2000.0 to 9000.0 hPa, <6000 m
Calculated non-the prinary measurement	to of temperature, relative number		-49.0 to 257.0 °F, 0.0 to 100.0 % RH,			32.0 to 100.0 °F, 5.0 to 95.0 %RH,
Density Altitude	4000	ft	8.86 to 32.48 inHg	1	246	8.86 to 32.48 inHg, <19700 ft
	NOC	m	-45.0 to 125.0 °C, 0.0 to 100.0 %RH,	1	75	0.0 - 37.8 °C, 5.0 to 95.0 %RH,
				1		-2000 to 9000 hPa, <6000 m
1 second			300.0 to 1100.0 hPa	a far a state a bata as at		nere.
1 second Calculated from the primary measurement	nts of temperature, relative humic	lity and pressure.	300.0 to 1100.0 hPa Air density converted to equivalent sea level elev	vation at the Internat	ional Standard Atmosp	
1 second Calculated from the primary measuremen Max / Average	nts of temperature, relative humid All Models				ional Standard Atmosp	
1 second Calculated from the primary measurement		One-button clea	Air density converted to equivalent sea level elev	d measurement.		alling rapidly.
1 second Calculated from the primary measuremen Max / Average Wind Speed (Air Velocity) Pressure Trend	All Models 2500 3500	One-button clea Continuously up Minimum, maxin	Air density converted to equivalent sea level elev r and restart of Max Wind Gust and Average Win dating three-hour barometric pressure trend indic num, average and logged history stored and disp	d measurement. cator: rising rapidly, layed for every mea	rising, steady, falling, f	
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