Kestrel® Pocket Weather Meters Specifications

	Model	Units	Operational Range	Resolution	Accuracy (+/-)	Specification Range
		m/s	0.4 to 60.0 m/s	0.1		0.4 to 40.0 m/s
Wind Speed		ft/min	59 to 11,948 ft/min	1	Lorgor of	59 to 7877 ft/min
(Air Velocity)	Jel ⁵	km/h	1.0 to 218.0 km/h	0.1	Larger of 3% of reading	1.0 to 144.0 km/h
1 second	, MOL	mph	0.8 to 135.0 mph	1	or least	0.8 to 89.0 mph
1 0000/14	PI	knots	0.6 to 118.3 kt	0.1	significant digit	0.6 to 78.0 kt
1 inch diameter impeller with precis	ion cylo and comphire bearings		0 to 12 B	0.1		0 to 12 B
		Beaufort			after 100 bours use a	
			cement impeller (NK PN-0801) may be field-in			
		cfm	0 to 99,999 cfm	1		0 to 99,999 cfm
Air Flow		m³/h	0 to 99,999 m ³ /h	1		0 to 99,999 m ³ /h
1 second	*10 ⁰	m³/m	0 to 99,999 m ³ /m	1	3% of reading	0 to 99,999 m ³ /m
	^w	m³/s	0.0 to 9,999.9 m ³ /s	0.1	orreading	0.0 to 9,999.9 m ³ /s
		L/s	0 to 99,999 L/s	1		0 to 99,999 L/s
Automatically calculated from Air A	elocity measurement and user-sp		e (circle or rectangle) and dimensions (units:		imum duct dimension	
	-		10.010.057.0.05		1005	00.0 // 450.0 05
Temperature	a, a, a, a, a, a, a,	°F ℃	-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
1 second	20° 25° 30° 35° 40° 40°					
leasures air, water and snow tem	perature. Thermally isolated, her	metically sealed,	precision thermistor mounted externally (US P	Patent 5,939,645). C	alibration drift negligib	le.
Relative Humidity	300 350 400 4100	%RH	0.0 to 100.0 %	0.1	3.0 %RH	5.0 to 95.0 % non-condensing
1 minute Polymer capacitive humidity senso	r mounted in thin-walled chambe	external to case	for rapid, accurate response (US Patent 6,257	7,074). (To achieve	stated relative humidit	y accuracy, unit must be permitted to equilibrate
external temperature when expose	ed to large, rapid temperature cha	nges and must be	kept out of direct sunlight.) Calibration drift +	-/- 2% over 24 month	s. Relative humidity n	may be recalibrated at factory or in field using Ke
Humidity Calibration Kit (NK PN-08	ر ب عر 	int.		0.01	0.05 1111	AL 77 0 25 10 700 %
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
	essure sensor with second-order	emperature corre	ction. Maximum error beyond specified tempe	erature, +/- 0.09 inH	g / 3.0 hPa. Calibratio	n drift typically -0.03 inHg / -1.0 hPa per year.
Pressure sensor may be recalibrat						
Altitude		<i>4</i>	-6000 to 20000 #	1	50 ft	At 77.0 °F, <19,700 ft. Max error +/- 98 ft
1 second	60° 60° 60	ft m	-6000 to 30000 ft -2000 to 9000 m	1	15 m	At 77.0 °F, <19,700 ft. Max error +/- 98 ft At 25.0 °C, <6,000 m. Max error +/- 30 m
	12 53 K		2000 10 3000 111	· · ·		
Cemperature compensated pressu	re (parometric) altimeter.					
Wind Chill		°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	20025003003500400400	°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
Calculated from the primary meas	urements of wind speed and temp	erature. Utilizes t	the NWS Wind Chill Temperature (WCT) Index	x, revised 2001, with	wind speed adjusted	by a factor of 1.5 to yield equivalent results to v
speed measured at 10 m above gr	ound. (Specification temperature	limits established	by WCT Tables.)			
Heat Index		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	300,350,400,400	°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
	rements of temperature and rela-	ivo humidity . Litili	izes the NWS Heat Index (HI) tables. (Specifi	action tomporature		
valculated norm the primary measu	drements of temperature and rela	· · · · ·		·		
Dewpoint	300,350,000,100	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	30' 32' W' W'	°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 measured	urements of temperature and rela-	tive humidity. Ten	nperature to which the air would need to be co	ooled at a constant p	ressure to become sa	turated.
			-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	a° 4° a°	°F	8.86 to 32.48 inHg	0.1	3.6 °F	8.86 to 32.48 inHg, <19700 ft
	30° 35° 180°	°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,
1 minute						-2000.0 to 9000.0 hPa, <6000 m
1 minute			300.0 to 1100.0 hPa			-2000.0 to 9000.0 HPa, <0000 HI
1 minute	urements of temperature, relative		300.0 to 1100.0 hPa sure. Temperature indicated by a wet bulb pa			
1 minute			300.0 to 1100.0 hPa sure. Temperature indicated by a wet bulb ps -49.0 to 257.0 °F, 0.0 to 100.0 % RH,		246	32.0 to 100.0 °F, 5.0 to 95.0 %RH,
1 minute Calculated from the primary measu Density Altitude		humidity and pres	300.0 to 1100.0 hPa sure. Temperature indicated by a wet bulb ps -49.0 to 257.0 °F, 0.0 to 100.0 % RH, 8.86 to 32.48 inHg	sychrometer.	246	32.0 to 100.0 °F, 5.0 to 95.0 %RH, 8.86 to 32.48 inHg, <19700 ft
i minute Calculated from the primary measu Density Altitude 1 second	rug.	humidity and pres	300.0 to 1100.0 hPa sure. Temperature indicated by a wet bulb ps -49.0 to 2570 °F, 0.0 to 100.0 % RH, 8.86 to 32.48 inHg -45.0 to 125.0 °C, 0.0 to 100.0 %RH, 300.0 to 1100.0 hPa	sychrometer.	246 75	32.0 to 100.0 °F, 5.0 to 95.0 %RH, 8.86 to 32.48 inHg, <19700 ft 0.0 - 37.8 °C, 5.0 to 95.0 %RH, -2000 to 9000 hPa, <6000 m
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