Response Time	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		59 to 7877 ft/min
(Air Velocity)	161E	km/h	1.0 to 218.0 km/h	0.1	Larger of 3% of reading or least	1.0 to 144.0 km/h
1 second	, Moc	mph	0.8 to 135.0 mph	1	significant digit	0.8 to 89.0 mph
7 3000/10	VI.	knots	0.6 to 133.0 mpn	0.1	Jg.,	0.6 to 78.0 kt
		Beaufort	0.6 to 118.3 kt	0.1		0.6 to 78.0 kt
inch diameter impeller with precision axle and	d sapphire bearings. Off-axis accuracy -1% @ 5				PH / 7 m/s. Sustained operation al	bove 60 MPH / 27 m/s will wear impeller rapidly an
	ent impeller (NK PN-0801) may be field-installed	without tools (US Pa	tent 5,783,753).			
		cfm	0 to 99,999 cfm	1		0 to 99,999 cfm
Air Flow	-0 -0	m³/h	0 to 99,999 m ³ /h	1		0 to 99,999 m ³ /h
1 second	riog riog	m³/m	0 to 99,999 m ³ /m	1	3% of reading	0 to 99,999 m ³ /m
		m³/s	0.0 to 9,999.9 m ³ /s	0.1		0.0 to 9,999.9 m ³ /s
		L/s	0 to 99,999 L/s	1		0 to 99,999 L/s
	surement and user-specified duct shape (circle of	or rectangle) and dim		uct aimension input:		
Wind Direction / Forward Heading	, se co	•	360°	1	5°	0 to 360°
1 second	•	Cardinal Points	360°	16 Points	5°	0 to 360°
				for True North read	out. Accuracy of measurements d	ependent upon unit's vertical position. Self-calibrat
-	s or unit and must be run after every full power-d					
Temperature	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	°F	-49.0 to 257.0 °F	0.1	1.8 °F	-20.0 to 158.0 °F
1 second	Jug ten dag ten ran tra tra tra tran tran	°C	-45.0 to 125.0 °C	0.1	1.0 °C	-29.0 to 70.0 °C
easures air, water and snow temperature. The	nermally isolated, hermetically sealed, precision	thermistor mounted	externally (US Patent 5,939,645). Calibration	n drift negligible.		
Relative Humidity	" " " " " " " " " " " " " " " " " " "	%RH	0.0 to 100.0 %	0.1	3.0 %RH	5.0 to 95.0 % non-condensing
1 minute						-
olymer capacitive humidity sensor mounted in an id temperature changes and must be kept of	n thin-walled chamber external to case for rapid, out of direct sunlight.) Calibration drift +/- 2% ove	accurate response (er 24 months, Relativ	US Patent 6,257,074). (To achieve stated re re humidity may be recalibrated at factory or	lative humidity accu in field using Kestrel	racy, unit must be permitted to equently the Humidity Calibration Kit (NK PN-0)	illibrate to external temperature when exposed to la 802).
,				30 1103451	y ==moradon fat (rate i fate	
Evaporation Rate	-0	lb/ft²/hr	0.00 to 1.00 lb/ft ² /hr	0.01	Typical: ±0.02 lb/ft²/hr	0.00 to 1.00 lb/ft²/hr
1 second	kan	kg/m²/hr	0.00 to 5.00 kg/m²/hr	0.01	Typical: ±0.1 kg/m²/hr	0.00 to 5.00 kg/m²/hr
						or probe thermometer (°F or °C, not included with
	s should be taken 20 inches above pour surface					
			-		•	-
Pressure		inHg	0.3 to 32.5 inHg	0.01	0.05 inHg	At 77.0 °F, 22.1 to 32.5 inHg
1 second	280 280 200 270 275 20 800	hPa / mb	10.0 to 1100.0 hPa / mb	0.1	1.5 hPa / mb	At 25.0 °C, 750 to 1100hPa / mb
7 3000/10	12 32 19 11 11 12 12	PSI	0.15 to 16.0 PSI	0.01	0.02 PSI	At 77.0 °F, 10.9 to 16.0 PSI
analithic silican piezaresistive pressure cons	or with second-order temperature correction. Mo					nHg / -1.0 hPa per year. Pressure sensor may be
calibrated at factory or in field.		31101 0401 (61	,			
Altitude		ft	-6000 to 30000 ft	1	50 ft	At 77.0 °F, <19,700 ft. Max error +/- 98 ft
1 second	240 340 100 120 125 130 140	m	-2000 to 9000 m	1	15 m	At 25.0 °C, <6,000 m. Max error +/- 30 m
emperature compensated pressure (barometi		iti	-2000 to 9000 III		10 111	At 20.0 C, NO,000 III. IMAX BITOL #/- 30 M
emperature compensated pressure (baromet	ic) altineter.		0.8 to 135.0 mph	1	5%	8.5 to 89.0 mph
0		mph ft/min	59 to 11,880 ft/min	1	5%	750 to 7832 ft/min
Crosswind Headwind, Tailwind	asaa	km/h	1.0 to 217.3 km/h	0.1	5%	13.7 to 143.2 km/h
1 second	KSC	m/s	0.4 to 60.0 m/s	0.1	5%	3.8 to 40.0 m/s
i second		knots	0.4 to 60.0 m/s	0.1	5%	7.4 to 77.0 kt
alculated from the primary measurements of	wind speed, wind direction and target heading.					7.4 to 77.0 Kt
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	Ton ten don ten ton tran tran ten tan ten	°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 ts to wind speed measured at 10 m above ground.
Specification temperature limits established by		willia Cilli Temperat	ure (WCT) index, revised 2001, with wind sp	eeu aujusteu by a ta	ictor or 1.5 to yield equivalent resu	its to willo speed measured at 10 m above ground.
	,	°F			3.6 °F	70.0 to 130.0 °F, 0 to 100% RH
Heat Index	" " " " " " " " " " " " " " " " " " "		0.0 to 100.0 %RH, -49.0 to 257.0 °F	0.1		
1 minute	Bog Reg Bog How Bog Beg Bog Reg	°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
1 minute alculated from the primary measurements of	gangan kan kan kan kan kan kan kan kan kan k	°C WS Heat Index (HI)	0.0 to 100.0 %RH, -45.0 to 125.0 °C tables. (Specification temperature limits est	0.1 ablished by HI tables	2.0 °C	21.1 to 54.4 °C, 0 to 100 %RH
1 minute alculated from the primary measurements of Dewpoint	temperature and relative humidity. Utilizes the N	°C NWS Heat Index (HI)	0.0 to 100.0 %RH, -45.0 to 125.0 °C tables. (Specification temperature limits est 0.0 to 100.0 %RH, -49.0 to 257.0 °F	0.1 ablished by HI tables 0.1	2.0 °C 3.) 3.6 °F	21.1 to 54.4 °C, 0 to 100 %RH -20.0 to 158.0 °F, 20.0 to 95.0% RH
1 minute alculated from the primary measurements of Dewpoint 1 minute	temperature and relative humidity. Utilizes the N	°C WS Heat Index (HI) °F °C	0.0 to 100.0 %RH, 45.0 to 125.0 °C tables. (Specification temperature limits est. 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 ablished by HI tables 0.1	2.0 °C	21.1 to 54.4 °C, 0 to 100 %RH
1 minute alculated from the primary measurements of Dewpoint 1 minute	temperature and relative humidity. Utilizes the N	°C WS Heat Index (HI) °F °C	0.0 to 100.0 %RH, -45.0 to 125.0 °C tables. (Specification temperature limits est 0.0 to 100.0 %RH, -49.0 to 257.0 °F 0.0 to 100.0 %RH, -45.0 to 125.0 °C Id need to be cooled at a constant pressure to	0.1 ablished by HI tables 0.1	2.0 °C 3.) 3.6 °F	21.1 to 54.4 °C, 0 to 100 %RH -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 alculated from the primary measurements of Dewpoint 1 minute alculated from the primary measurements of	temperature and relative humidity. Utilizes the N good good good good good good good good	°C WS Heat Index (HI) °F °C	0.0 to 100.0 %RH, -45.0 to 125.0 °C tables. (Specification temperature limits est 0.0 to 100.0 %RH, -49.0 to 257.0 °F 0.0 to 100.0 %RH, -45.0 to 125.0 °C do need to be cooled at a constant pressure to -49.0 to 257.0 °F, 0.0 to 100.0 %RH,	0.1 ablished by HI tables 0.1	2.0 °C 3.) 3.6 °F	21.1 to 54.4 °C, 0 to 100 %RH -20.0 to 158.0 °F, 20.0 to 95.0 % RH -29.0 to 70.0 °C, 20.0 to 95.0 %RH 32.0 to 100.0 °F, 5.0 to 95.0 % RH,
1 minute alculated from the primary measurements of Dewpoint 1 minute alculated from the primary measurements of Wet Bulb Temperature	temperature and relative humidity. Utilizes the N	°C IWS Heat Index (HI) °F °C to which the air wou	0.0 to 100.0 %RH, -45.0 to 125.0 °C tables. (Specification temperature limits est 0.0 to 100.0 %RH, -49.0 to 257.0 °F 0.0 to 100.0 %RH, -45.0 to 125.0 °C dd need to be cooled at a constant pressure t -49.0 to 257.0 °F, 0.0 to 100.0 %RH, 8.86 to 32.48 inHg	0.1 ablished by HI tables 0.1 0.1 0 become saturated	2.0 °C 3.6 °F 2.0 °C 3.6 °F	21.1 to 54.4 °C, 0 to 100 %RH -20.0 to 158.0 °F, 20.0 to 95.0% RH -29.0 to 70.0 °C, 20.0 to 95.0 %RH 32.0 to 100.0 °F, 5.0 to 95.0 %RH, 8.86 to 32.48 inHg, <19700 ft
1 minute alculated from the primary measurements of Dewpoint 1 minute alculated from the primary measurements of	temperature and relative humidity. Utilizes the N good good good good good good good good	°C WS Heat Index (HI) °F °C to which the air wou	0.0 to 100.0 %RH, -45.0 to 125.0 °C tables. (Specification temperature limits est 0.0 to 100.0 %RH, -49.0 to 257.0 °F 0.0 to 100.0 %RH, -45.0 to 125.0 °C do need to be cooled at a constant pressure to -49.0 to 257.0 °F, 0.0 to 100.0 %RH,	0.1 ablished by HI tables 0.1 0.1 0.1 o become saturated	2.0 °C 3.0 3.6 °F 2.0 °C	21.1 to 54.4 °C, 0 to 100 %RH -20.0 to 158.0 °F, 20.0 to 95.0 % RH -29.0 to 70.0 °C, 20.0 to 95.0 %RH 32.0 to 100.0 °F, 5.0 to 95.0 % RH,
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1 minute alculated from the primary measurements of Dewpoint 1 minute alculated from the primary measurements of Wet Bulb Temperature 1 minute alculated from the primary measurements of Humildity Ratio	temperature and relative humidity. Utilizes the N york york by york york york york york temperature and relative humidity. Temperature	°C WS Heat Index (HI) °F °C to which the air wou °F °C mperature indicated to	0.0 to 100.0 %RH, -45.0 to 125.0 °C tables. (Specification temperature limits est 0.0 to 100.0 %RH, -49.0 to 257.0 °F 0.0 to 100.0 %RH, -45.0 to 125.0 °C defect to be cooled at a constant pressure 1 -49.0 to 257.0 °F, 0.0 to 100.0 %RH, 8.86 to 32.48 inhtg -45.0 to 125.0 °C, 0.0 to 100.0 %RH, 300.0 to 1100.0 hPa by a wet builb psychrometer.	0.1 ablished by HI tables 0.1 0.1 0.1 o become saturated 0.1 0.1 0.1	2.0 °C 2.0 °C 2.0 °C 2.0 °C 3.6 °F 2.0 °C typical accuracy 10%	21.1 to 54.4 °C, 0 to 100 %RH -20.0 to 158.0 °F, 20.0 to 95.0% RH -29.0 to 70.0 °C, 20.0 to 95.0 %RH 32.0 to 100.0 °F, 5.0 to 95.0 %RH, 8.86 to 32.46 inHg, <19700 ft 0.0 to 37.8 °C, 5.0 to 95.0 %RH, -2000.0 to 9000.0 hPa, <6000 m
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1 minute Calculated from the primary measurements of Dewpoint 1 minute Calculated from the primary measurements of Wet Bulb Temperature 1 minute Calculated from the primary measurements of Humidity Ratio 1 minute Calculated from the primary measurements of	temperature and relative humidity. Utilizes the N grift geld grift	°C WS Heat Index (HI) °F °C to which the air wou °F °C mperature indicated to gpp g/kg measure of Grains/	0.0 to 100.0 %RH, -45.0 to 125.0 °C tables. (Specification temperature limits est 0.0 to 100.0 %RH, -49.0 to 257.0 °F 0.0 to 100.0 %RH, -49.0 to 257.0 °F 0.0 to 100.0 %RH, -45.0 to 125.0 °C dreed to be cooled at a constant pressure to 49.0 to 257.0 °F, 0.0 to 100.0 %RH, 8.86 to 32.48 in/rlg -45.0 to 125.0 °C, 0.0 to 100.0 %RH, 300.0 to 1100.0 b Pa by a wet bulb psychrometer. 0.000 to 5000.0 gpp 0.00 to 720.0 g/kg 1to dry air, called the humidity ratio, is an in 49.0 to 257.0 °F, 0.0 to 100.0 % RH, -49.0 to 257.0 °F, 0.0	0.1 bblished by HI tables 0.1 0.1 0.1 o become saturated 0.1 0.1 0.1 0.1 0.1	2.0 °C 3.6 °F 2.0 °C 3.6 °F 2.0 °C typical accuracy 10% typical accuracy 10% of water vapor in air.	21.1 to 54.4 °C, 0 to 100 %RH -20.0 to 158.0 °F, 20.0 to 95.0% RH -29.0 to 70.0 °C, 20.0 to 95.0 %RH 32.0 to 100.0 °F, 5.0 to 95.0 %RH, 8.86 to 32.48 inHg, <19700 ft 0.0 to 37.8 °C, 5.0 to 95.0 %RH, -2000.0 to 9000.0 hPa, <6000 m -20 to 130 °F, 5 to 95% RH, 8.86 to 32.48 inHg -29 to 54 °C, 5 to 95% RH, 300.0 to 1100.0 hPa 32.0 to 100.0 °F, 5.0 to 95.0 %RH,
1 minute alculated from the primary measurements of Dewpoint 1 minute alculated from the primary measurements of Wet Bulb Temperature 1 minute alculated from the primary measurements of Humidity Ratio 1 minute alculated from the primary measurements of Density Altitude	temperature and relative humidity. Utilizes the N grift geld grift	°C WS Heat Index (HI) °F °C to which the air wou °F °C rec rec gpp g/kg	0.0 to 100.0 %RH, -45.0 to 125.0 °C tables. (Specification temperature limits est 0.0 to 100.0 %RH, -49.0 to 257.0 °F 0.0 to 100.0 %RH, -49.0 to 257.0 °F do need to be cooled at a constant pressure t -49.0 to 257.0 °F, 0.0 to 100.0 %RH, 8.8 to 32.48 in Hg -45.0 to 125.0 °C, 0.0 to 100.0 %RH, 300.0 to 1100.0 hPa by a wet bulb psychrometer. 0.000 to 5000.0 gpp 0.00 to 720.0 g/kg Ib of dry air, called the humidity ratio, is an in -49.0 to 257.0 °F, 0.0 to 100.0 %RH, 8.8 to 32.48 in Hg	0.1 bblished by HI tables 0.1 0.1 0.1 o become saturated 0.1 0.1 0.1 0.1 1 0.1 1 1 1 1 1 1 1 1 1	2.0 °C 3.6 °F 2.0 °C 3.6 °F 2.0 °C typical accuracy 10% typical accuracy 10% of water vapor in air.	21.1 to 54.4 °C, 0 to 100 %RH -20.0 to 158.0 °F, 20.0 to 95.0 % RH -29.0 to 70.0 °C, 20.0 to 95.0 %RH 32.0 to 100.0 °F, 5.0 to 95.0 %RH, 8.86 to 32.48 inHg, <19700 ft 0.0 to 37.8 °C, 5.0 to 95.0 %RH, -200.0 to 900.0 hPa, <6000 m -20 to 130 °F, 5 to 95% RH, 8.86 to 32.48 inHg -29 to 54 °C, 5 to 95% RH, 300.0 to 1100.0 hPa 32.0 to 100.0 °F, 5.0 to 95.0 %RH, 8.86 to 32.48 inHg, <19700 ft
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