Measurement					Accuracy	
Response Time	Model	Units	Operational Range	Resolution	(+/-)	Specification Range
		m/s	0.4 to 60.0 m/s	0.1		0.4 to 40.0 m/s
Wind Speed	-6	ft/min	59 to 11,948 ft/min	1		59 to 7877 ft/min
(Air Velocity)	AI MODELS	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		mph	0.8 to 135.0 mph	0.1	significant digit	0.8 to 89.0 mph
		knots	0.6 to 118.3 kt	0.1		0.6 to 78.0 kt
1 inch diameter impeller with precision axle and	sapphire bearings. Off-axis accuracy -1% @ 5	Beaufort 5º off-axis; -2% @ 10	0 to 12 B •; -3% @ 15°. Calibration drift < 1% after 100	1) hours use at 16 M	PH / 7 m/s. Sustained operation al	0 to 12 B bove 60 MPH / 27 m/s will wear impeller rapidly a
	nt impeller (NK PN-0801) may be field-installed					
		cfm 1-	0 to 99,999 cfm	1		0 to 99,999 cfm
Air Flow	e e	m ³ /h	0 to 99,999 m ³ /h	1		0 to 99,999 m ³ /h
1 second	4 ¹⁰ 420	m ³ /m	0 to 99,999 m ³ /m	1	3% of reading	0 to 99,999 m ³ /m
		m³/s L/s	0.0 to 9,999.9 m ³ /s 0 to 99,999 L/s	0.1		0.0 to 9,999.9 m ³ /s 0 to 99,999 L/s
Automatically calculated from Air Velocity meas	surement and user-specified duct shape (circle o				258.0 in / 21.5 ft / 655.3 cm / 6.55	
Wind Direction / Forward Heading		•	360°	1	5°	0 to 360°
1 second	150 ⁰	Cardinal Points	360°	16 Points	5°	0 to 360°
				for True North read	lout. Accuracy of measurements d	lependent upon unit's vertical position. Self-calibition
routine eliminates magnetic error from batteries	s or unit and must be run after every full power-d	Jown (battery remova	al or change).			
Temperature	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	°F	-49.0 to 257.0 °F	0.1	1.8 °F	-20.0 to 158.0 °F
1 second		°C	-45.0 to 125.0 °C	0.1	1.0 °C	-29.0 to 70.0 °C
	nermally isolated, hermetically sealed, precision	thermistor mounted	externally (US Patent 5,939,645). Calibration	n drift negligib		
Relative Humidity	300 350 400 400 400 420 420 450	%RH	0.0 to 100.0 %	0.1	3.0 %RH	5.0 to 95.0 % non-condensing
1 minute Polymer capacitive humidity sensor mounted in		accurate response (US Patent 6 257 074) (To achieve stated re	lative humidity accu	racy unit must be permitted to equ	ilibrate to external temperature when exposed to
	ut of direct sunlight.) Calibration drift +/- 2% over					
Evaporation Rate				0.01		
	1.200	lb/ft ² /hr	0.00 to 1.00 lb/ft ² /hr	0.01	Typical: ±0.02 lb/ff/hr	0.00 to 1.00 lb/ft ² /hr
1 second		kg/m²/hr	0.00 to 5.00 kg/m ² /hr		Typical: ±0.1 kg/m ² /hr	0.00 to 5.00 kg/m ² /hr
	wind speed, air temperature, relative humidity an s should be taken 20 inches above pour surface					or probe thermometer (°F or °C, not included with 6 l öllft r or ±0.3 ka/m²/hr.
				g Januari averaging		or 10.0 ng/11 /11.
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	150,500,000,200,250,200,500	hPa/mb	10.0 to 1100.0 hPa / mb	0.1	1.5 hPa / mb	At 25.0 °C, 750 to 1100hPa / mb
	1, 3, 1, 1, 1, 1, 13, 13.	PSI	0.15 to 16.0 PSI	0.01	0.02 PSI	At 77.0 °F, 10.9 to 16.0 PSI
	or with second-order temperature correction. Ma					5hPa. Pressure sensor may be recalibrated at fa
or in field.						
Altitude		ft	-6000 to 30000 ft	1	50 ft	At 77.0 °F, <19,700 ft. Max error +/- 98 ft
1 second	2500 3500 1000 1200 1250 1300 1500	m	-2000 to 9000 m	1	15 m	At 25.0 °C, <6,000 m. Max error +/- 30 m
Temperature compensated pressure (barometri	ic) altimeter.					
		mph	0.8 to 135.0 mph	1	5%	8.5 to 89.0 mph
Crosswind	0	ft/min	59 to 11,880 ft/min	1	5%	750 to 7832 ft/min
Headwind, Tailwind	150 ⁰	km/h	1.0 to 217.3 km/h	0.1	5%	13.7 to 143.2 km/h
1 second		m/s	0.4 to 60.0 m/s	0.1	5%	3.8 to 40.0 m/s
Calculated from the primary measurements of a	wind speed, wind direction and target heading.	knots	0.6 to 117.3 kt	0.1	5%	7.4 to 77.0 kt
	wind speed, wind direction and target neading.	°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
Wind Chill 1 second	200,250,300,350,000,000,000,000,000,000,000,0	°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 Its to wind speed measured at 10 m above groun
(Specification temperature limits established by		wind Chill Temperat	ure (wcr) index, revised 2001, with wind spe	eeu aujusteu by a ta	ictor of 1.5 to yield equivalent resu	its to wind speed measured at 10 m above groun
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	300 350 400 400 200 250 250 500	°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
	temperature and relative humidity. Utilizes the N			1		21.1 10 34.4 0,0 10 100 /011
Dewpoint		۴	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	309 350 LOO LOO LOO LOO LOO LOO	°C	0.0 to 100.0 %RH, -45.0 to 257.0 °C	0.1	2.0 °C	-29.0 to 70.0 °C, 20.0 to 95.0 % RH
Calculated from the primary measurements of to	emperature and relative humidity. Temperature			1		
		۴F	-49.0 to 257.0 °F, 0.0 to 100.0 %RH,	0.1	3.6 °F	32.0 to 100.0 °F, 5.0 to 95.0% RH,
Wet Bulb Temperature	200 200 100 100 100 100 120 120 120	- F	8.86 to 32.48 inHg	0.1	3.0 F	8.86 to 32.48 inHg, <19700 ft
1 minute	3° 3° 6° 6° 6° 6° 6° 6° 6°	°C	-45.0 to 125.0 °C, 0.0 to 100.0 %RH, 300.0 to 1100.0 hPa	0.1	2.0 °C	0.0 to 37.8 °C, 5.0 to 95.0 %RH, -2000.0 to 9000.0 hPa, <6000 m
Calculated from the primary measurements of to	emperature, relative humidity and pressure. Ter	mperature indicated				-2000.0 10 3000.0 11 2, 0000 11
		gpp	0.000 to 5000.0 gpp	0.1	typical accuracy 10%	-20 to 130°F, 5 to 95% RH, 8.86 to 32.48 inHg
Humidity Ratio	0.0	998	0.000 to 0000.0 gpp	0.1	typical accuracy 1070	2010/100/100/00/00/00/00/00/02:10/1111
	20 ¹ 2 ⁵¹					
	RUN RED	g/kg	0.00 to 720.0 g/kg	0.01	typical accuracy 10%	-29 to 54°C, 5 to 95% RH, 300.0 to 1100.0 hP
	ເຊ ^{ີ່ຊີນ} ເຊື້ ^{ອນ} temperature, relative humidity and pressure. The		Ib of dry air, called the humidity ratio, is an inc			
Calculated from the primary measurements of t	temperature, relative humidity and pressure. The		/lb of dry air, called the humidity ratio, is an inc -49.0 to 257.0 °F, 0.0 to 100.0 % RH,			-29 to 54°C, 5 to 95% RH, 300.0 to 1100.0 hP 32.0 to 100.0 °F, 5.0 to 95.0 %RH, 8.86 to 32.48 inHa, <19700 ft
		e measure of Grains/ ft	Ib of dry air, called the humidity ratio, is an inc	dication of the mass	of water vapor in a	32.0 to 100.0 °F, 5.0 to 95.0 %RH,
Calculated from the primary measurements of tr Density Altitude 1 second	temperature, relative humidity and pressure. The	e measure of Grains/ ft m	b of dry air, called the humidity ratio, is an in -49.0 to 257.0 °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	dication of the mass	of water vapor in a 246 75	32.0 to 100.0 °F, 5.0 to 95.0 %RH, 8.86 to 32.48 inHg, <19700 ft
Calculated from the primary measurements of tr Density Altitude f second Calculated from the primary measurements of t	temperature, relative humidity and pressure. The	e measure of Grains/ ft m	b of dry air, called the humidity ratio, is an in -49.0 to 257.0 °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	dication of the mass	of water vapor in a 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,
Calculated from the primary measurements of tr Density Altitude 1 second Calculated from the primary measurements of the Max/Avg Wind Speed (Air Velocity),	temperature, relative humidity and pressure. The	e measure of Grains/ ft m r density converted to	b of dry air, called the humidity ratio, is an in -49.0 to 257.0 °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	dication of the mass	of water vapor in a 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,
Calculated from the primary measurements of tr Density Altitude 1 second Calculated from the primary measurements of tr Max/Avg Wind Speed (Air Velocity), Crosswind, Headwind/Tailwind	emperature, relative humidity and pressure. The پوه په دو که پوه پوه emperature, relative humidity and pressure. Air All Models	e measure of Grains/ ft m r density converted to One-button clear ar	b of dry air, called the humidity ratio, is an int 49.0 to 257.0 °F, 0.0 to 100.0 % RH, 88 to 32.48 inHg 45.0 to 125.0 °C, 0.0 to 100.0 % RH, 300.0 to 1100.0 hPa equivalent sea level elevation at the Internat nd restart of Max Wind Gust and Average Win	dication of the mass 1 1 tional Standard Atm nd measurement.	of water vapor in a 246 75 osphere.	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
Calculated from the primary measurements of tr Density Altitude 1 second Calculated from the primary measurements of Max/Avg Wind Speed (Air Velocity),	emperature, relative humidity and pressure. The دومی ویک ویک ویک ویک emperature, relative humidity and pressure. Air	e measure of Grains/ ft m r density converted to One-button clear ar Continuously updat	b of dry air, called the humidity ratio, is an int 49.0 to 257.0 °F, 0.0 to 100.0 % RH, 8.88 to 32.48 inHg 45.0 to 125.0 °C, 0.0 to 100.0 % RH, 300.0 to 1100.0 % RH, 300.0 to 1100.0 hPa o equivalent sea level elevation at the Internat nd restart of Max Wind Gust and Average Wir ting three-hour barometric pressure trend indiv	dication of the mass 1 1 tional Standard Atm nd measurement. icator: rising rapidly	of water vapor in a 246 75 osphere. , rising, steady, falling, falling rapid	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
Calculated from the primary measurements of tr Density Altitude <i>1 second</i> Calculated from the primary measurements of tr Max/Avg Wind Speed (Air Velocity), Crosswind, Headwind/Tailwind Pressure Trend	emperature, relative humidity and pressure. The پوه په دو که پوه پوه emperature, relative humidity and pressure. Air All Models	e measure of Grains/ ft m r density converted to One-button clear ar Continuously updat Minimum, maximur	b of dry air, called the humidity ratio, is an ind 49.0 to 257.0 °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, 30.0 to 1100.0 hPa to equivalent sea level elevation at the Internat nd restart of Max Wind Gust and Average Win ting three-hour barometric pressure trend indi- n, average and logged history stored and disp	dication of the mass 1 1 tional Standard Atm nd measurement. icator: rising rapidly played for every me	of water vapor in a 246 75 osphere. rising, steady, falling, falling rapid assured value. 2000-point data logg	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
Calculated from the primary measurements of tr Density Altitude <i>1 second</i> Calculated from the primary measurements of tr Max/Avg Wind Speed (Air Velocity), Crosswind, Headwind/Tailwind Pressure Trend Data Storage / Display	emperature, relative humidity and pressure. The یوی دیگ دیگ دیگ دیگ دیگ emperature, relative humidity and pressure. Air All Models 2500 3500 4000 4100 4200 4250 4300 4500	e measure of Grains/ ft m density converted to One-button clear an Continuously updat Minimum, maximur 4300 logs 1800 poi	b of dry air, called the humidity ratio, is an int 49.0 to 257.0 °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, 30.0 to 1100.0 hPa o equivalent sea level elevation at the Internat nd restart of Max Wind Gust and Average Wir ting three-hour barometric pressure trend indi- n, average and logged history stored and dis- ints, 4500 logs 1400 data points). Auto data st	dication of the mass 1 1 tional Standard Atm nd measurement. icator: rising rapidly played for every me torage; interval sett	of water vapor in a 246 75 osphere. , rising, steady, falling, falling rapid assured value. 2000-point data logg able from 2 seconds to 12 hours. M	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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Calculated from the primary measurements of tr Density Altitude 1 second Calculated from the primary measurements of tr Max/Avg Wind Speed (Air Velocity), Crosswind, Headwind/Tailwind Pressure Trend Data Storage / Display Data Upload	emperature, relative humidity and pressure. The پوه په په په په په په په emperature, relative humidity and pressure. Air All Models 2500 3500 4000 4100 4200 4250 4300 4500 4000 4100 4200 4250 4300 4500	measure of Grains/ ft m density converted to One-button clear ar Continuously updat Minimum, maximum 4300 logs 1800 poi Requires optional F Reflective 3 1/2 dig	b of dry air, called the humidity ratio, is an int 49.0 to 257.0 °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, 30.00 to 110.0 hPa b equivalent sea level elevation at the Internat and restart of Max Wind Gust and Average Wir ting three-hour barometric pressure trend indi m, average and logged history stored and disg ints, 4500 logs 1400 data points). Auto data st C interface (NK PN-0830) and provided softw pit LCD. Digit height 0.36 in / 9 mm.	dication of the mass 1 1 tional Standard Atm nd measurement. icator: rising rapidly played for every me torage; interval sett	of water vapor in a 246 75 osphere. , rising, steady, falling, falling rapid assured value. 2000-point data logg able from 2 seconds to 12 hours. M	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
Calculated from the primary measurements of tr Density Altitude <i>1 second</i> Calculated from the primary measurements of tr Max/Avg Wind Speed (Air Velocity), Crosswind, Headwind/Tailwind Pressure Trend Data Storage / Display	emperature, relative humidity and pressure. The solve solve	measure of Grains/ ft m density converted to One-button clear an Continuously updat Minimum, maximur 4300 logs 1800 poi Requires optional F Reflective 4 digit LC	b of dry air, called the humidity ratio, is an ind 49.0 to 257.0 °F, 0.0 to 100.0 % RH, 8.8.6 to 32.48 inHg 45.0 to 125.0 °C, 0.0 to 100.0 % RH, 30.00 to 1100.0 hPa or equivalent sea level elevation at the Internat and restart of Max Wind Gust and Average Wir ting three-hour barometric pressure trend indi n, average and logged history stored and disg nts, 4500 logs 1400 data points). Auto data si PC interface (NK PN-0830) and provided softw it LCD. Digit height 0.36 in / 9 mm.	dication of the mass 1 1 tional Standard Atm nd measurement. icator: rising rapidly played for every me torage; interval sett	of water vapor in a 246 75 osphere. , rising, steady, falling, falling rapid assured value. 2000-point data logg able from 2 seconds to 12 hours. M	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
Calculated from the primary measurements of tr Density Altitude <i>1 second</i> Calculated from the primary measurements of tr Max/Avg Wind Speed (Air Velocity), Crosswind, Headwind/TailWind Pressure Trend Data Storage / Display Data Upload Display	emperature, relative humidity and pressure. The set of the set of	measure of Grains/ ft m density converted to One-button clear an Continuously updat Minimum, maximur 4300 logs 1800 poi Requires optional F Reflective 3 1/2 dig Reflective 4 digit L(Multifunction, multi-	b of dry air, called the humidity ratio, is an int 49.0 to 257.0 °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, 30.00 to 110.0 hPa b equivalent sea level elevation at the Internat and restart of Max Wind Gust and Average Wir ting three-hour barometric pressure trend indi m, average and logged history stored and disg ints, 4500 logs 1400 data points). Auto data st C interface (NK PN-0830) and provided softw pit LCD. Digit height 0.36 in / 9 mm.	dication of the mass 1 1 tional Standard Atm nd measurement. icator: rising rapidly played for every me torage; interval sett	of water vapor in a 246 75 osphere. , rising, steady, falling, falling rapid assured value. 2000-point data logg able from 2 seconds to 12 hours. M	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
Calculated from the primary measurements of tr Density Altitude 1 second Calculated from the primary measurements of tr Max/Avg Wind Speed (Air Velocity), Crosswind, Headwind/Tailwind Pressure Trend Data Storage / Display Data Upload	emperature, relative humidity and pressure. The solve solve	reasure of Grains/ ft m density converted to One-button clear an Continuously updat Minimum, maximur 4300 logs 1800 pol Requires optional F Reflective 3.1/2 dig Reflective 3.1/2 dig Reflective 4. digit Li 1 second.	b of dry air, called the humidity ratio, is an int 40.0 to 257.0 °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 b equivalent sea level elevation at the Internat nd restart of Max Wind Gust and Average Wir ting three-hour barometric pressure trend indir n, average and logged history stored and disg- ints, 4500 logs 1400 data points). Auto data st 2°C interface (NK PN-0830) and provided softw tit LCD. Digit height 0.36 in / 9 mm. CD. Digit height 0.36 in / 9 mm. digit programmable dot-matrix display.	dication of the mass 1 1 tional Standard Atm nd measurement. icator: rising rapidly played for every me torage; interval sett	of water vapor in a 246 75 osphere. , rising, steady, falling, falling rapid assured value. 2000-point data logg able from 2 seconds to 12 hours. M	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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