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QUALITY SYSTEM JQA 2790 JQA-EM1628

2nd Edition Rev.2

Kanomax Group

Since our inception more than 50 years ago, Kanomax has been the most promising manufacturer of a broad range of precision measuring instruments for fluid mechanics research, environmental, aerosol research, particles measurement, and customized system applications. As a company that prides itself in technology, product quality, and service, we have been enjoying an unsurpassed reputation in the Japanese industrial and academic fields. Japanese customer demand for high quality has driven us to produce the finest manufactured products in the industry. We are pleased to introduce our quality products to the global market. To further benefit our customers worldwide, we have launched our global operations aiming to introduce our dependable technology and to provide our wide range of measuring solutions and services.



Kanomax USA, Inc. (NJ)

Kanomax Holdings, Inc. (NY)



Kanomax Japan, Inc.



Shenyang Kanomax Instrument Co., Ltd. (China)

Kanomax **FEAS**ibility

Kanomax makes your idea feasible and realizes your needs.

Fluid Measurement Instruments	Environmental Measurement Instruments
Having established worldwide brand recognition and product loyalty, Kanomax Fluid Measurement Instruments have become the measurement standard in Japan. Our Fluid Velocity Systems have wide-ranging industrial applications to include Elimination of Locomotive Wheel Noise, Research to Increasing Energy Efficiency, Architectural Research and Development, Civil Engineering, Chemistry, and Medical Science Research to name a few.	Ever increasing public awareness for air quality is driving the demand for improved monitoring and control of air temperature, humidity, flow and particulates. Kanomax produces a number of Air Measurement and Control Instruments currently utilized by industry professionals. These devices are vital tools for maintaining Constant Air Quality and Comfort in critical locations that include public and private offices, factories, and medical facilities. Kanomax Anemometers currently enjoy a 67.9% market share among top 10 Japanese subcontractors.
Aerosol Measurement Instruments	System Application
Kanomax has developed Particle Measurement Technologies to address a variety of applications from Semiconductor Production Facilities requiring rigorous air cleanliness to general office work environments. Our Particle Measurement Technology is generally divided into three areas, Environmental Comfort Monitoring, Cleanroom Environment Monitoring, and Aerosol Research Instruments.	Kanomax has developed custom Wind Tunnel, Environmental Test and Performance Test systems for a variety of areas that include Aviation, Environmental Assessment, and Automotive. As an example, during the development of an intercontinental rapid transit scramjet engine, Kanomax tested flame stabilization, air inlet shape, and many other effects using Kanomax supersonic wind tunnels.

Customer Services

Kanomax fully understands service to be an essential part of the total solution provided to our valued customers. Having already established a worldwide service network, we continuously strive to improve our support services.



NIST (National Institute of Standards and Technology) Traceable Calibration Services

Our Calibration Laboratory in New Jersey maintains the longest and most accurate wind tunnel of its kind. Kanomax provides the highest quality of service available with a quick turnaround time. Our service specialists are well trained and will calibrate your instruments to the highest standards. We recommend that all instruments be calibrated on an annual basis.

Kanomax Global Calibration Facility

Kanomax's global (Japan and US) calibration facilities are directly traceable to the national standards and ensure the highest precision measurements for our valued customers. We are fully committed to providing the best calibration services possible utilizing our global facilities.

Kanomax Anemometer Calibration Facility

Calibration Facility	Temperature Variable Wind Tunnel	Low Velocity Wind Tunnel	High Velocity Wind Tunnel	High Temperature Wind Tunnel	Open Jet Wind Tunnel	Humidity Calibrator	Pressure Generator
Туре	GÖTTINGEN (closed-circuit)	EIFFEL (open-circuit)	GÖTTINGEN (closed-circuit)	GÖTTINGEN (closed-circuit)	Centrifugal fan	a) Two temperature type b) shunt type	Pump type
Specifications	59 to 9840fpm (0.3 to 50m/s) 41 to 176°F (5 to 80°C)	10 to 492fpm (0.05 to 2.5m/s)	590 to 9840fpm (3 to 50m/s)	Room temperature to 752°F (400°C) 20 to 9840fpm (0.1 to 50m/s)	50 to 6000fpm (0.25 to 30.5m/s)	a) 3 to 100%, 41 to 104°F (5 to 40°C) b) 0 to 100%, 41 to 140°F (5 to 60°C)	±0 to 10kPA
Applications	Temperature compensating calibration	Low velocity range air velocity calibration	High velocity range air velocity calibration	High temperature range air velocity calibration	Anemometers and Pitot tubes calibration	Humidity calibration	Pressure calibration



Standard Particle Generator



Open Jet Wind Tunnel

Anemometers Selection Guide

Area	Application			A031	A531	A533	A541	A542	A543	6113	6162	6312	1550	1560	1570	6812	6813	6815
Indoor	Air environmental measurement in residence and office buildings	0	0	0	0	0	0	0	0	0						0	0	0
Environment	Air-condition and environmental measurement in buildings and factories		0	0	0		0	0		0						0	0	0
<u>.</u>	Air-conditioning capacity test and maintenance check		0	0	0		0	0		0							0	0
Air- conditioning Equipment	Air velocity measurement in cleanroom	0	0	0	0	0	0	0	0									
	Performance check for HEPA filter, etc.				0	0	0	0	0			0						
High-	Stack gas and combustion air measurement for incinerator, electric furnace, boiler, etc.										0							
temperature Environment	Hot air measurement for drying air, sterilization, etc										0							
	Air velocity measurement in tight quarters (e.g. inside PCs) for cooling efficiency, etc.				0		0	0										
Inspection, Control	Product performance check for cooling efficiency, drying efficiency, etc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Air velocity control for blowers											0						
Automotivo	Automobile velocity measurement	0	0	0	0		0	0										
Automotive	Air velocity measurement for engine compartment and vehicle interior	0	0	0	0		0	0			0		0	0	0			
Multipoint	Air velocity distribution measurement in indoor and inside ducts	0	0	0	0		0	0					0	0	0			
measurement	Air velocity monitoring in cleanroom and indoor											0	0	0	0			

Solution Technologies for Automotive R&D

R&D competition is increasingly keen in the modern day automobile industry. Kanomax continually monitors trends and user needs of collective automobile technologies.

Kanomax designs and produces testing equipment utilizing state of the art technologies. We offer customized engineering systems and products, applying our many competitive technologies. These include fluid mechanics research instruments, particle measurement devices, optical measurement systems and control technology for the automobile, aeronautics, shipbuilding, and architectural industries. Kanomax optimizes system applications to meet each customer's individual needs, drawing on our solid product knowledge, years of experience and many successful engagements.





Anemomaster Model A004

Palm-Size Hot-Wire Anemometer

NIST Traceable

CE



HVAC Testing IAQ Investigation Industrial Hygiene Cleanrooms

Features:

- Probe Compatibility feature allows utilization of a spare probe
- Detachable probe
- •Compact, light-weight, and affordable
- •Simple operation
- •Wide ranges of measurement
- •Built-in temperature compensation circuit

Benefits:

- •Palm-size and feather-weight main body is hardly noticeable
- •Accuracy of +/- 3% is maintained to suit your needs
- •Soft keys and large display make it a breeze to conduct measurement
- Temperature compensation maintains accuracy at any temperature in the range

-							
1	Vodel	A004					
	Range	20 to 3940 fpm (0.10 to 20.0m/s)					
	Accuracy	+/-3% of reading or +/-3 fpm (+/-0.015m/s) whichever is greater					
Air Velocity	Response Time	Less than 1second at 196 fpm (1m/sec), 90% response					
	Resolution	0 to 9.99 m/sec: 0.01 m/sec (minimum)					
		10.0 to 20.0 m/sec: 0.1 m/sec					
	Range	32 - 122°F (0-50°C)					
Air	Accuracy	+/-0.2°F (1°C)					
Temperature	Response Time	Less than 30 seconds at 196 fpm (1 m/sec), 90% response					
Resolution		1°F (0.1°C)					
		4 x 1.5V AA cells Mn battery, alkaline battery, or Ni-Cd battery					
Power Supply		(An appropriate charger to be used for the Ni-Cd battery)					
Battery Life		Approx. 4 hrs. Continuous at air velocity 196 fpm (1 m/s) with Mn batteries					
Operating	Main Unit	41 to 104° F (5 to 40° C)					
Environment	Probe	32 to 122°F (0 to 50°C)					
Storage Enviror	nment	14-122°F (-10 to 50°C)					
		Probe: approx. 0.24" or 0.40" (6 or 10 mm) in diameter x 7.9" (200 mm) in length					
Dimensions		Probe cable: 0.13" (3.3 mm) in diameter x 59" (1500 mm) in length					
		Main body: 2.4" (60 mm) x 4.7" (120 mm) x 1.2" (30 mm)					
Weight		Approx. 0.4lbs (180g) including batteries					
Standard Kit		Operation Manual, AA Batteries					
Optional Acces	sories	Spare Probe, Extension Rod (Telescopic 6.5" - 35.8" / 166mm to 909mm)					



Anemomaster Model A031 Series

NIST Traceable

HVAC Testing IAQ Investigations Filter Face Velocity Measurements Cleanroom Studies Industrial Hygiene

Features:

- Single probe capable of measuring air velocity and temperature simultaneously
- · Built-in memory allows storage of measured data
- Highly- visible LCD is capable of displaying air velocity and temperature simultaneously
- RS232 and Analog (option) outputs are available



- •Data can be reviewed on-screen, printed, or downloaded to a computer
- •Articulating probe for various applications
- •Etched length increments on the telescopic probe make duct traverse measurements easier
- •Telescopic probe for hard-to-reach areas and in-duct measurements

Air Velocity	Range	20-6000fpm (0.10-30.0m/s)
	A	+/-2% of reading or +/-3fpm whichever is greater
	Accuracy	(+/-2% of reading or +/-0.015m/s whichever is greater)
	Resolution	1fpm (0.01m/s from 0 to 9.99m/s, 0.1m/s from 10.0 to 30.3m/s)
Maluma atria Ela		At 20 fpm: 9031 ft3/min, at 6000 fpm: 2,709,360 ft ³ /min
Volumetric Flo	wrate	(At 0.1m/s: 2,341m ³ /s, At 30 m/s: 702,270 m ³ /s)
Temperature	Range	-4 to 140.0 °F (-20 to 60.0°C)
	Accuracy	+/-1°F (+/-0.3°C)
	Resolution	0.1°F (0.1°C)
Differential	Range	-5.00 to + 5.00kPa
Pressure	Accuracy	+/- (3% of reading + 0.01)kPa
(Option)	Resolution	0.01kPa
Output	Digital	RS 232C (Baud rate 4800, 9600, 19200 and 38400 bps)
	Analog	DC 0-3 V (Select from Air Velocity, Air Temperature and Pressure)
Power Supply		6 x 1.5V AA batteries (AC adaptor: AC90-240V/Optional)
		Timed and multipoint average calculation.
Data Storage		Total of 800 data for Velocity and Temperature /
		Volumetric Flowrate and Temperature / Pressure
	Straight Probe Model	Length: 39.4 in. (100 cm)- Telescopic / Diameter of Tip: 0.236 in.
Probe	A031/A041	(6.0mm), Diameter of Base: 0.472 in. (12.0 mm)
11000	Articulating Probe	Length: 39.4 in. (100 cm)- Telescopic / Diameter of Tip: 0.236 in. (6.0mm),
	Model A034/A044	Diameter of Base: 0.472 in. (12.0 mm) Articulating section length: 3.543 in. (90.0 mm)
Accessories		Carrying case, Operation manual, 6 x AA Batteries, RS-232C cable,
Accessones		Software (for Windows), AC adaptor
Options		Analog output, Printer, AC adaptor (for Printer)

Climomaster Series





Multi-Function Thermal Anemometer

Ventilation Testing Laboratory Control Cleanrooms IAQ Investigation Industrial Hygiene Quality Control



Features:

- Probe Compatibility feature allows utilization of a spare probe
- Detachable probe allows for easy replacement, and for compatibility with multi-function thermo anemometers
- Automatic Flow Rate Calculation function
- RS232C terminal for data logging
- Stores up to 1500 measurement data
- Differential Pressure available as an option

Benefits:

- If you have more than one unit, detachable probe allows you to share the main unit or the probe.
- Gives automatic flow rate readings by registering duct sizes (up to 25 duct sizes).
- •Well designed software allows you to access the data instantly.
- You can store the data or upload it to your PC via RS232C cable and software (both optional)

Specifications

Мо	del	A531	A541	A542	A533	A543	
Air Velocity Ran	ge	20 to 6	6000fpm (0.10 to 30	0.0m/s)	10 to 1000fpm	(0.05 to 5.00m/s)	
Air Temperature	Range		32.0	to 140.0°F (0.0 to 60	0.0°C)		
Relative Humidi	ty Range	2.0 to 98.0%RH			2.0 to 98.0%RH		
Differential Pres	sure (Option)			-5.00 to +5.00kPa			
Accuracy	-	Veloci Relative I	ty: +/-2% of reading Air Tem Humidity: +/-2.0%R Differential Pre	g or +/-3fpm (+/-0.01 perature: +/- 1 °F (+/ H from 2 to 80%RH, essure: +/- (3% of rea	5m/s) whichever is (/-0.5 °C) +/-3%RH from 80 t ding +0.01)kPa	greater o 98%RH	
Output	Digital		RS-232C (Baud F	Rate 4800, 9600, 192	00 and 39400bps)		
Output	Analog	DC0-1V (Se	lect from Air Veloci	ty, Air Temperature, F	Relative Humidity a	nd Pressure)	
Power Supply		6 x 1.5V AA Batteries, AC Adapter (Optional): AC100-240V					
Battery Life		Approx. 10hrs. Continuous at 984fpm (5m/s), 68°F (20°C) with alkaline batteries					
Operating	Main Unit		4	1 to 104°F (5 to 40°C	C)		
Environment	Probe		3	32 to 140°F (0 to 60°C	C)		
Storage Environ	ment			41-104°F (5 to 40°C)		
Weight				Approx. 0.9lbs (400g)		
Standard Kit		Carrying Case, Op	eration Manual, AA	Batteries, Probe Ca	ble		
Optional Access	ories	Spare Probe, Analo Communication Ca	og Output, Pressur able, Software (for V	e Sensor, Extension Windows), AC Adapt	Rod, Printer, Printe er: AC100-240V 50/	r Cable, /60Hz	

Selection Guide

Model	Measuring Range	Probe Type	Directivity	Velocity & Temp.	Relative Humidity
A531	20 - 6,000 fpm	Rod	Mono	0	0
A541	20 - 6,000 fpm	Rod	Mono	0	×
A542	20 - 6,000 fpm	Needle	Omni	0	×
A533	10 - 1,000 fpm	Spherical	Omni	0	0
A543	10 - 1,000 fpm	Spherical	Omni	0	×

Anemomaster Model 6812, 6813, 6815

Rotating Vane Digital Anemometer

NIST Traceable

CE



HVAC Testing IAQ Investigations Industrial Hygiene Cleanroom Testing

Features:

- Display switchable in m/s (MPS) or ft/min (FPM) for air velocity and cubic ft/min (CFM) or cubic meter/hr (CMH) for calculated air volume flow.
- · Very high accuracy due to use of microprocessor
- Digital memory for maximum and minimum values
- Average measurements over two or sixteen seconds for air velocity
- Display hold for easy reading of measurements
- · Long battery life

Мо	del	6812	6813	6815			
	Probe AP275	4	0 to 7800 FPM (0.2 to 40 m/s)				
Air Valaaitu	Probe AP100	6	0 to 6800 FPM (0.3 to 35 m/s)				
Air velocity	Accuracy		$\pm 1.0\%$ of Reading ± 1 digit				
	Resolution		1 FPM or 0.01 m/s				
Air Volume Flo	w	C	0.0 to 9999 CFM(ft ³ /min) / 0.0 to	9999 m³/hr			
	Air Vel. Probe	-	-22 to 212 F (-30 t	o 100C)			
Temperature	Optional Temp Probe	-	-139 to 392 F (-95	to 200C)			
remperature	Accuracy	-	±0.3°C ±0.2% of Re	ading in °C			
Resolution		-	0.1 F or 0.1°C (1 F bel	low -99.9 F)			
Datati	Range		-				
Relative	Accuracy		-				
Turnaty	Resolution		0.1 %RH				
Dis	olay	0.5 inch LCD, 4 digits with LED Backlight					
On evention of T	-	Instrument: 32 to 125F (0 to 50C)					
Operating I	emperature	Probe: -4 to 212F (-20 to 100C)					
Power	Supply	3 AA Alkaline Batteries					
Operating Ti	me (Battery)		Approximately 150 hours				
	Instrument	W 3.2 x D 1	5 x H 6.5 inches (8.2 x 3.8 x 1	.6.5 cm)			
Dimensions	Probe AP275		2.75 inch diameter				
Dimensions	Probe AP100		1.00 inch diameter				
	RH/Temp Probe		-	6 inch x 1 inch diameter			
Standa	rd Accessories	 1 x Rotating Vane Probe Head, your choice of AP275 or AP100 HTP 201 combination RH / Temp Probe (available for 6815) Extension Rod w/ Handle Grip, Flexible Rod 3 x AA 1.5V Alkaline Batteries, Operation Manual, Carrying Case 					

%Please contact us for Standard Kit & Optional Accessories for those products

Anemomaster Model 6113, 6114

Multi-Function Thermal Anemometer

NIST Traceable



Built-in Printer (Model 6113) Probe Compatibility RS-232C Terminal

Features:

- Probe Compatibility feature allows utilization of a spare probe
- Simultaneously measures air velocity, temperature, and pressure measurements
- Large, easy-to-read LCD

Benefits:

- •Quick printing of measurements at site
- •Simple operation with buttons for printing and calculation
- •Easily keeps record of measurements
- •Suitable for measurements inside ducts

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Air Valaaity	Range	20 to 9840 fpm (0.10 to 50.0 m/s)					
All velocity	Accuracy	+/-(3% of reading +20fpm (0.1m/s))					
Air	Range	32 to 212°F (0 to 100°C)					
Temperature	Accuracy	+/-2.0°F (1.0°C)					
Pressure	Range	-5.00 to +5.00kPa					
(Option)	Accuracy	+/-(3% of reading +0.01)kPa					
	Settings	Display hold, time constant setting (1, 5, or 10 sec.), remaining battery life (5 steps),					
	Octaings	measuring unit setting (m/s, fpm, Celsius, Fahrenheit, kPa).					
Measuring	Data Storage	Instantaneous storage, average (over 60 sec. max.), Storage 100 max.					
FUNCTIONS	Calculation	Maximum and minimum values, averaging, raw data display					
Display		Calendar function, air velocity bar graph display.					
	Digital Output	RS-232C (4800, 9600, 19200, 38400bps) for communication with PC.					
Outputs	Printer Output	Printing calculation results and measurements.					
Culpuis	Analog Output (Option)	DC 0 to 1V (1ch. Selected from air velocity, temp. and pressure)					
Power Supply		6 × 1.5 volt C cells (Mn, alkaline, or Ni-Cd)					
Battery Life		10 hours continuous operation (with alkaline batteries, at 5m/s, 20C, without printer use)					
Operating	Main Body	41 to 104°F (5 to 40°C)					
Environment	Probe	32 to 212°F (0 to 100°C)					
Storage Environn	nent	41 to 104°F (5 to 40°C)					
Weight (including	batteries)	Approx. 2.2 lbs. (Approx. 1000 g)					
Dimensions		7.9" x 5.9" x 3.9" (200 x 150 x 100mm)					
Standard Kit		1 x operation manual, 6 x 1.5V Mn C cells, 1 x probe with 2-meter (6.6-feet) cable,					
		1 x extension rod, 1 x shoulder strap					
Optional Accesso	ories	Spare Probe, Analog Output, Pressure Measurement, Printer Paper, Communication Cable, Data Management Software (for Windows), AC Adapter					

Anemomaster Model 6162

NIST Traceable

Middle and High Temperature Anemomaster

Probe Model 0203 (Middle temp. Up to 392°F (200°C)) Model 0204 (High temp. Up to 932°F (500°C))



Features:

- Simultaneous display of air velocity and temperature
- Improved response time by the addition of secondary temperature compensation circuit
- Easy review of time history by graphic display
- Memory function of maximum 999 separate measurement data
- Built-in RS-232 C serial interface for connection to PC. Analog
 output and remote control terminal also equipped
- Probe Compatibility feature allows you to change the probe easily

Model	Probe Model 0203 (for middle temp.)	Probe Model 0204 (for high temp.)				
	32 – 392F (0 – 200°C)	32 – 752F (0 – 400 °C)				
Measuring Range	40 – 9840fpm (0.2 – 5	50m/s): 32 – 212°F (0 – 100°C)				
	80 –9840fpm (0.4 – 50r	n/s): 212 – 392°F (100 – 200°C)				
		138 – 9840fpm (0.7 – 50m/s): 392 – 572°F (200 – 300°C)				
		197 – 9840fpm (1.0 – 50m/s): 572 – 752°F (300 – 400°C)				
Measuring Accuracy	Air velocity:	+/-3%F.S.				
	Air temperature	+/-(1%rdg+1°C)				
Temp. Compensation	Less than 984fpm (5m/s): +/-10%F.S.	Less than 984fpm (5m/s): +/-15%F.S.				
Accuracy (Air Velocity)	984fpm(5m/s) to 9,840fpm(50m/s): +/-6%F.S.	984fpm(5m/s) to 9,840fpm(50m/s): +/-10%F.S.				
Heat-resistance	Teflon coating (Probe side): 392°F (200°C)					
of Cable	Vinyl code (Extension cable): 176°F (80°C)					
Longth of Cable	Teflon coating 4.9ft (1.5m)	Teflon coating 7.5ft (2.3m)				
Length of Cable	Vinyl code 16.4ft (5m)	Vinyl code 32.8 (10m)				
Extension Rod (Option)	0.65"(MAX)x31.5" (16.5x800mm)	0.87"(MAX)x81.5" (22x2070mm)				
Probe Dimensions	Dimension: ϕ 0.43"x8.2" (11x208mm)	Dimension: ϕ 0.43"x39.4" (11x1000mm)				
Display	Digital (simultaneous disp	play of air velocity and temperature)				
Input/output Terminal	Remote terminal: START/STC	P key				
	Analog output terminal: Output volta	age 0 – 1 V, Output impedance 47 Ω				
	Digital output terminal: RS-232C (s	serial interface)				
Power Supply	Dry battery drive: US type (1.5V	x 6 pcs = 9V), Alkaline battery, Mn battery				
	AC adapter: 12.5V, 450	0mA (AC100V +/- 10%, 50/60Hz)				
Operating Temp.	41 – 1	04°F (5 – 40°C)				
Battery Life	Ар	prox. 8 hours				
Dimensions	8.7" x 3.3" x 5.9	" 220 x 85 x 150 mm				
Weight	Main body: Approx. 4.0lbs (1.8kg), Probe N	Nodel 0203: 7.1oz(200g), Model 0204: 17.6oz (500g)				

4 Channel Anemomaster Model 1570



Product Efficiency Control Ventilation Testing IAQ Investigation Cleanroom

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NIST Traceable

Features:

- 4CH simultaneous measurement in a compact body.
- Wide probe selection available for various applications.
- Capable of taking measurements at high-time-resolution (0.1 sec)
- RS232C terminal for data logging.

Benefits:

- Each channel display can be easily switched over by the touch of a button
- · Probe compatibility saves your downtime and shipping cost
- Windows software gives you simultaneous measurement on air velocity and flow rate
- · Measurement data saved in text format for easy processing using other software such as Excel

Main Body Specifications:

Display		LCD display					
Data Transfor	Burst Mode	Transfers data of all channels					
Data Transfer	Channel Mode	Transfers data of specific channel only					
Software	Instant Mode	Displays instantaneous values every specified sampling time					
Function	Average Mode	Displays average values of a specified sampling time					
Outout	Digital	RS 232C (Baud rate 9600bps fixed)					
Output	Analog	0-5 V					
Main Body Ope	eration Temperature	41-104°F (5-40°C)					
External Dimer	nsions	7.8" x 10.2" x 2.8" (200 x 260 x 70mm)					
Weight		5.7 lbs (Approx. 2.6 kg)					
Power Supply		AC 85V – 276V 50Hz/60Hz					
Standard Kit		RS-232 cable, Power cable, 2xFuse, Data Processing Software					

Probe Specifications:

Model	0962-00 / 0963-00	0964-01 / 0964-02	0965-00/01/03/04/07/08	
	20-1000fpm: +/-20fpm	20-1000fpm: +/-30fpm	20-1000fpm: +/-30fpm	
	(0.1-4.99m/s: +/-0.1m/s)	(0.1-4.99m/s: +/-0.15m/s)	(0.1-4.99m/s: +/-0.15m/s)	
	1000-2000fpm: +/-40fpm	1000-2000fpm: +/-60fpm	1000-2000fpm: +/-60fpm	
Magguring Dange & Acourcey	(5.00-9.99m/s: +/-0.2m/s)	(5.00-9.99m/s: +/-0.3m/s)	(5.00-9.99m/s: +/-0.3m/s)	
Neasuning Range & Accuracy	2000-5000fpm: +/-100fpm	2000-5000fpm: +/-150fpm	2000-5000fpm: +/-120fpm	
	(10.0-24.9m/s: +/-0.5m/s)	(10.0-24.9m/s: +/-0.75m/s)	(10.0-25.0m/s: +/-0.6m/s)	
	5000-10000fpm:m+/-200fpm	5000-10000fpm:m+/-300fpm		
	(25.0-50.0m/s: +/-1.0m/s)	(25.0-50.0m/s: +/-1.5m/s)		
Temperature Compensation	41 – 176°F (5 – 80°C)			
Response Time (1 m/s, 90% response)	Approx. 1 sec	Approx. 3 sec	Approx. 7 sec	

Multi-Channel Anemomaster Model 1550 & 1560

Real-Time Air Quality Monitoring System

NIST Traceable



Features:

- Main Unit Features: One unit of Model 1550 has 64 Channels for air velocity.
- For a larger system, connect up to 5 units in a cascade and add a computer for control.
- Up to 320 channels of measuring points.
- Flexibility in system configuration means greater freedom, simplicity, and efficiency in measurement.

Model	1550	1560		
	LCD (with backlight) Simultaneously displays on a module basis			
Display	MAN: Select modules by operating the UP/DOWN switches			
	AUTO: Automatically selects modu	les every 2 seconds to display data		
	Burst Mode: Transfers data	of all channels at high speed		
Functions	Channel Mode: Transfers data of the specific channel only			
	Data Selection: Outputs instantaneous values every specified sampling time, and outputs the average			
	Data transfer: RS232C (standard),			
	Extended RS232C (optional)			
Interface	GP-IB (optional)			
	Baud Rate: 300, 600, 1200, 2400, 4800, 9600, 19200bps (selectable)			
	Printer output: Centronics			
Dimensions	16.9" x 19.6" x 5.5" (430 x 500 x 140 mm) 8.9" x 12.8" x 5.5" (226 x 325 x 140 mm)			
Weight	Approx. 22lbs (Approx. 10kg) Approx. 11lbs (Approx. 5kg)			

Probes:



Module Features:

Five types of modules add more freedom to system configuration.

- 4-channel air velocity module Model 1504
- 2-channel air velocity and temperature module Model 1511
- 1-channel air velocity, temperature, and humidity module Model 1512
- Static pressure module Model 1503
- Analog output module Model 1510

* Combine these modules and design a multi-channel system freely. More modules can be added whenever necessary



Tabmaster

Features:

- Designed For Maximum Contractor Productivity
- 30 hour battery life
- Largest selection of hoods in the industry
- Displays air volume flow, velocity and temperature in metric or imperial measurements
- Self-averaging, measuring sensor complies with ISO 3966
- Detachable meter can be used with optional 4" rotating vane kit for face velocity measurements
- Optional 4" vane head and Aircone Hood Kit
- Display indicates supply or exhaust flow-Memory, avg/max/min/sum, communication to Windows® via RS232 serial port
- Folding hood frame, no onsite assembly required
- 4 handle locations available (2 handles included)
- Measurements down to 50 cfm without a low flow screen
- Durable rubber grill seal outlasts typical foam seals.
- True ambient readout. Displays flow in actual or standard CFM with onboard conversion via user input of temperature and pressure



Volume Flow	50-2400 cfm, 85-4078 m3/hr., 24-1133 l/s	
Velocity Range (using 100 mm head)	50-6000 ft/min, 0.25-30 m/sec	
Display Resolution Volume	1 CFM, 1m3/hr, 1 l/sec	
Temperature	1°F, 0.1°C	
Weight (Instrument and 2'x2' hood)	9.7 lbs., 4.4kg	
Memory Locations	99	
Output	RS232	
Battery Type/Life	4xAA Alkaline 35 hours	
Standard	Volume flow kit with 2x2 foot hood, soft case	
Options	Fabric Hood (Red, Yellow, Orange, Blue, Gray) Carrying Case, 4" vane !	

Airflow Transducer Model 6332 & 6332D



Features:

- 10 interchangeable probe options
- Probes quickly and easily attach/detach
- Digital Display Option (model 6332D)
- Selectable Output (Output can be set to either voltage: 0 to 5V or current: 4 to 20mA)



Model 6332 (without display)

Main Unit Specifications

Measuring Object	Clean air and compatible, non-combustible gases				
Measuring Range	Maximum range 0.1 ~ 50 m/s (Range dependant on probe type*)				
Measuring Accuracy		-	± (3% of reading + 0.1)	m/s	
Tamananatuma		0.1-4.99m/s	5.00-9.99m/s	10.0-24.9m/s	25.0-50.0m/s
Componention Dense	5~40°C	±0.25m/s	±0.50m/s	±1.25m/s	±2.50m/s
Compensation Range	40~80°C	±0.35m/s	±0.70m/s	±1.75m/s	±3.50m/s
Selectable Output	(Set vi	a onboard Dipswitch).	Current output: DC 4~2	0mA (Max. load resista	ance: 250Ω)
Option		Voltage of	utput: DC 0~5V		
Selectable Range			(Rotary Switch selecta	ble).	
Option		0~2	2, 0~5, 0~10, 0~25, or 0)~50 m/s	
Display Resolution		Velocity Range: 0~2,	0~5, 0~10 m/s → D	isplay Resolution: 0.01	m/s
(Model 6332D only)		Velocity Range: 0~2	5, 0~50 m/s \rightarrow D	isplay Resolution: 0.1n	า/ร
Power Supply	DC 12~24V				
	Approx. 2.0W (Under the following conditions - power supply: 12V, air velocity: approx. 10m/s, using a unit				
Power Consumption	with a display with probe model 0965-03.)				
(Reference Value)	Power consump	Power consumption rate is subject to change according to conditions such as air velocity, probe type and			
			use of display.		
Connection Wire Size		0.5 ~ 1.5 mm ²			
Temp Range	Operating Temp: 41 to 104°F (5 to 40°C), Storage Temp: 14 to 122°F (-10 to 50°C)				
Dimensions	Approx. 5" x 3.1" x 1.2" (128 × 78 × 30 mm)				
Weight	Approx. 11oz (320g)				
Standard Accessories	Operation Manual : 1, Main Unit Case: 1				
Optional Accessories	Probe Cable (33ft (10m), 66ft (20m), 98ft (30m)), Display Unit (Supplied with a case with a display window and 2 installation screws.), Dedicated AC Adapter (DC12V)				

Probe Specifications

MODEL	Measuring Range	Sensor Type	
0962-00, 0963-00	0.1~50.0m/s	Uni-directional	
0964-01, 0964-02	0.1~30.011/s	Omni-directional (Needle)	
0965-00, 0965-01	0.1~25.0m/s	Omni-directional (Spherical)	
0965-03, 0965-04	0.1~25.0m/s	Mini-temperature-compensation-sensor integrated type Omni-directional (Spherical)	
0.1~25.011/5		Mini-temperature-compensation-sensor independent type Omni-directional (Spherical)	

Airflow Transducer Model 6312



Features:

- Keep high quality of products by airflow control
- Maintain cleanliness by airflow control
- For creation of comfortable environment
- Optimal for various air-conditioning (air velocity and airflow rate) control equipment
- Space saving design
- Traceable certificate available
- Current output range is 4 to 20mA

Main Unit Specifications

Air Valacity Macauring Dance	20 – 394 fpm (0.1 – 2.0 m/s)		
Air velocity measuring Range	Accuracy: +/-30fpm (0.15m/s)		
Temp. Compensation	64 – 82°F (18 – 28°C)		
Signal Output	4 – 20mA		
Power Supply	DC 24V		
Operational Conditions	Clean airflow with normal temperature and humidity		
Accessories	Probe Cable: 16 feet (5m)		



Probe Specifications

Model	0941	0942
Dimensions	0.2" x 0.4" x 3.0"	ϕ 0.4" x 4.3"
	(5.5 x 11 x 75mm)	(φ 11 x 108mm)
Quality of material	Molded Resin	SUS

Thermohygrometer, Sounds / Noise Measurement

Thermohygrometer Model 6841



Indoor Environmental Measurement Products Quality Control

Features:

- •Ultra light and palm-size
- •Easy to use

(Select temperature, humidity, or power on/off)





Measuring Object		Clean airflow		
Measuring range	Temperature	-4 to 113°F (-20 to 45°C)		
	Humidity	5 to 95%RH		
Display resolution	Temperature	0.1°F or 0.1°C		
	Humidity	0.1%RH		
Accuracy	Temperature	+/-0.9°F (+/-0.5°C)		
	Humidity	+/-3%RH		
Responsiveness		30 sec		
Measuring Function		Conversion between °F and °C		
Dimensions	Main Unit	Approx. 2.4" x 4.7" x 1.3" (60 x 120 x 34mm)		
	Probe	Approx. ϕ 19 x 170mm		
	Cable	Approx. φ 3.3 x 1.5m		
Power Supply		AAA Battery x 4 (Mn, Alkaline, or Ni-Cd)		
Operating Environment	Main Unit	41 to 104°F (5 to 40°C)		
	Probe	-4 to 113°F (-20 to 45°C)		
	Storage	14 to 122°F (-10 to 50°C)		
	Temperature			
Weight (including batteries)		Approx. 6.3oz (180g)		
Accessories		AAA Mn batteries x 4		



Indoor Air Quality Monitor Model 2211

Multi-Parameter Indoor Air Quality Monitor

IAQ Investigation Environmental Health and General Safety Thermal Comfort Measurements

Features:

- Simultaneously measure and log data with multiple parameters such as CO, CO², Temperature, Relative Humidity, to monitor indoor air quality conditions
- Calculates Dew Point, Web Bulb Temperature, Absolute Humidity, Humidity Ratio and % Outside Air
- Built-in memory allows user to store multiple point measurements

Benefits:

- Easy user calibration with built-in calibration function
- Capable to continuously monitor parameters via PC
- Large LCD shows multiple parameters at a glance

	-			
<u> </u>	Range	0 – 500PPM		
Accuracy	Accuracy	+/-3% of reading or 3PPM whichever is greater		
Range	Range	0 – 5000PPM		
0-	Accuracy	+/-3% of reading or +/-50PPM whichever is greater		
Tanana anatuna	Range	-4 – 140°F (-20 – 60°C)		
remperature	Accuracy	+/- 1°F (+/-0.5°C)		
Relative	Range	2 – 98%RH		
Humidity	Accuracy	2 – 80%RH: +/-2%RH, 80 – 98%RH: +/-3%RH		
		Normal measuring: Relative humidity, CO, CO ² , Dew point, Wet bulb temperature,		
	Normal Mode	Absolute humidity, and Humidity Ratio		
Functions	Calculation Mode	Store the data, and calculate the maximum, minimum and average value		
Functions	% OA Mode	Measure ventilation ratio		
	Data Output Mode	Perform re-calculation of stored data and output of data to PC and Printer.		
	Calibration Mode	Perform the calibration of CO and CO2.		
Quitauta	Digital	RS-232C (Baud rates:4800,9600,19200,38400bps)		
Analog (Option)		DC0 \sim 1V (Select 1 ch among CO, CO2, temperature, and relative humidity)		
Power Supply		AA Battery×6 (Alkaline or Ni-Cd), AC adapter:AC100~240V (50/60Hz)(Optional)		
Battery Life		Approximately 10 hours (at 77°F (25°C) with alkaline batteries, without RS232C)		
Operating	Main Body	41-104°F (5~40°C)		
Environment	Probe	- 4 - 140°F (-20~60°C)		
Storage Environment		- 4- 140° F (-20∼60°C)		
Standard Kit		Mn Battery × 6, Calibration cap, Connection tube		
Optional Accessories		Analog Output, Serial Printer, Communication Cable (For Computer and Printer),		
		AC Adapter		

Aeroqual Series 200

Multi-Sensor Handheld Gas Monitor



The Series 200 can be hand held or fixed in position. It is a simple, easy-to-use, low-cost monitor that displays the gas concentration. The monitor is compatible with the full range of Aeroqual gas sensors



Sensor Head

Monitor Base Specification

Measurement units	ppm		
Power supply	12 VDC, 800 mA		
Rechargeable battery pack (2 x options)	Standard 9.6V (940mA/hr Ni-Cd) Long Life 9.6V (2100mA/hr Ni-MH)		
Permanently fixable	Screw fix		
Enclosure rating	IP20 & NEMA 1 equivalent		
Size (with sensor head)	7.6 x 4.8 x 2.1 (in); 195 x 122 x 54 (mm)		
Weight (with sensor head and battery)	< 16 oz; < 460 g		
Functions	Remote sensor capability , Removable / replaceable sensor head, Low battery indication, Sensor condition status, Standby mode		
Approvals	Part 15 of FCC Rules, EN 50082-1: 1997, EN50081-1: 1992		

Sensor Head Specification

	Ozone			VOC*	Ammonia	со
	Low	High	Leak			
Measurement range	0.000 - 0.500 ppm	0.50 - 20.00 ppm	0.00 - 50.00 ppm	0 to 400 ppm toluene	0 to 1000 ppm	0 to 2000 ppm carbon monoxide
Accuracy	< 0.008 ppm (0 - 0.100 ppm) ±10% (0.100 - 0.500 ppm)	±10% (0.20 - 2.00 ppm) ±15% (2.00 - 20.00 ppm)	±20%, 15 seconds after Reset	< ±10 ppm (0 – 200 ppm); < ±10% (> 200 ppm)	< ±5 ppm (0 - 100 ppm); < ±10% (100 - 1000 ppm)	< ±10 ppm in the range 0 to 400 ppm
T90 response	< 60 seconds (T90)	< 35 seconds (T90)	< 10 seconds	< 60 s	< 60 s	< 150s
Sensor type	Gas-sensitive semiconductor		Gas-sensitive semiconductor	Gas-sensitive semiconductor	Gas-sensitive semiconductor	
Operating temperature range	23°F to 122°F ; -5°C to 50°C (sensor head and base unit)		-4°F to 140°F; -20°C to 60°C	-4°F to 140°F ; -20°C to 60°C	32°F to 158°F; 0°C to 70°C	
Operating relative humidity range	95% maximum (sensor head and base unit)		5 to 95% non-condensating	5 to 95% non-condensating	5 to 95% non-condensating	
Approvals					UL 2034, BS 7860	

* Specific Calibrations to other VOC's available – contact Kanomax Sales

Aeroqual Series 300 & 500

Multi-Sensor Handheld Gas Monitor



- The Series 300 can be hand held or fixed in position and provides a high level of functionality & monitoring capability.
- The Series 500 includes the same features and functionality of the Series 300 with the added feature of onboard and PC data logging.



Sensor Head

Monitor Base Specification

Measurement units	ppm or mg/m3		
External signal for alarms & control	Transistor output, 150 mA max		
External signal functions	Low Alarm, High Alarm & Control		
Analog output	0 - 5 V		
Power supply	12 VDC, 800 mA		
Rechargeable battery pack (optional)	9.6V Ni-MH (5 hours operation)		
Permanently fixable	Screw fix		
Enclosure rating	IP20 & NEMA 1 equivalent		
Data interface with PC (Series 500 only)	Serial RS232		
On Board Data Logging (Series 500 only)	8,000 data points		
Size (with sensor head)	7.6 x 4.8 x 2.1 (in); 195 x 122 x 54 (mm)		
Weight (with sensor head and battery)	< 16 oz; < 460 g		
Functions	Remote sensor capability, Removable / replaceable sensor head, On-board alarm, Alarm status displayed, Low battery indication, Alarm		
	(Series 500 only): Data logging independent of PC, Data logging direct to PC, On-board real-time clock, Data logging software supplied		
Approvals	Part 15 of FCC Rules, EN 50082-1: 1997, EN50081-1: 1992		

Sensor Head Specification

	Ozone			VOC*	Ammonia	со
	Low	High	Leak			
Measurement range	0.000 - 0.500 ppm	0.50 - 20.00 ppm	0.00 - 50.00 ppm	0 to 400 ppm toluene	0 to 1000 ppm	0 to 2000 ppm carbon monoxide
Accuracy	< 0.008 ppm (0 - 0.100 ppm) ±10% (0.100 - 0.500 ppm)	±10% (0.20 - 2.00 ppm) ±15% (2.00 - 20.00 ppm)	±20%, 15 seconds after Reset	< ±10 ppm (0 – 200 ppm); < ±10% (> 200 ppm)	< ±5 ppm (0 - 100 ppm); < ±10% (100 - 1000 ppm)	< ±10 ppm in the range 0 to 400 ppm
T90 response	< 60 seconds (T90)	< 35 seconds (T90)	< 10 seconds	< 60 s	< 60 s	< 150s
Sensor type	Gas-sensitive semiconductor			Gas-sensitive semiconductor	Gas-sensitive semiconductor	Gas-sensitive semiconductor
Operating temperature range	23°F to 122°F ; -5°C to 50°C (sensor head and base unit)		-4°F to 140°F; -20°C to 60°C	-4°F to 140°F ; -20°C to 60°C	32°F to 158°F; 0°C to 70°C	
Operating relative humidity range	95% maximum (sensor head and base unit)		5 to 95% non-condensating	5 to 95% non-condensating	5 to 95% non-condensating	
Approvals					UL 2034, BS 7860	

* Specific Calibrations to other VOC's available- contact Kanomax Sales

Tracer Gas Hardware

As Per ANSI/ASHRAE Standard 110-1995



IAQ Investigation Industrial Hygiene Quality Control

Features:

The Kanomax tracer gas diffuser is for use in performing the Tracer Gas test in accordance with ANSI/ASHRAE Standard 110-1995. Our diffuser is an improved design and meets the specifications of Standard drawing #110-83M. The diffuser is placed in the fume hood and sulfur hexafloride gas is injected at a supply pressure of 30 psig.The internal critical orifice ensures a flow rate of 4 liters per minute. Other orifice sizes can be inserted. Also available is the Kanomax model **Dif-Kit**.

The Dif-Kit supplies all the required hardware from the cylinder regulator to the diffuser. This includes the diffuser, tank regulator, in-line flow meter, shut-off valve, pressure gage, and 25 ft. of tubing. The in-line flow meter provides a secondary verification of flow rate to the critical orifice, as required by the Standard, so as to alert the user to any clogging or wear of the orifice. The orifice and other components are serviceable by Kanomax.

Specifications	
Critical Orifice	4 or 8 Liter Per Minute (4Lpm Standard)
Regulator	Dual Stage, Specialty Gas
Flow Meter	Calibrated 150mm/200psi, Glass Tube
Pressure Gage	Large Dial, 0 to 60psi
Options	Rebuild Kit (includes new Critical Orifice, washers, Bronze Sinter Filter)
	8Lpm Swappable Ejector Base

Piezobalance Dust Monitor Model 3521

Respirable Aerosol Mass Monitor

NIST Traceable



IAQ Investigations Environmental Measurements Product Quality Control Laboratory Research

Features:

- Data logging ability allows user to log 500 samples
- Simple cleaning mechanism for easy maintenance
- RS232C port available as standard
- Back-lit display is easy to read in poor lighting conditions

Benefits:

- While conventional dust meters "count" particulates, the Piezobalance dust meter "weighs" mass concentration of particulates
- Data can be reviewed on-screen, printed or downloaded to a computer
- · Software included for easy data download and processing
- Easy operation requires no special training

-1	MeanuingCalle	Measure 1me	Mode	Crement.	Data Statute .*	POP II
-	2805/11/22	9.0070	0010	3880	0	E Statut
	3905/11/23	8/80/21	0010	0012	0	initial
1	2009/11/22	0.0040	0010	0000	0	_prigan
1	2005/11/23	8.01.06	0010	0036	0 -	and the second se
1	3905/11/29	8.07.30	0010	0000	0	
т	20027102	93212	0010	0000	0	
1	2005/11/20	0.02-41	0010	8872	0	
	3905/11/29	0.021.00	0010	0000	8	Darn File Hatte
5	2003/11/23	11109.30	0010	0004	0	
П	2005/11/20	11-03-40	0010	0000	0	
8	2805/11/25	11.10.47	0010	0024	0	Read Data
П	200311123	15,27,32	00.0	0014	0	Enter
П	2905/11/28	11:53:65	0010	0009	0	Line in
1	2017/1208	13.54.00	0010	0000	0	Con II
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G.	2005/11/08	11:16:01	0010	0004	0	
1	200911/25	11.16.01	3534	2010	9	
6	2965/11/25	11:10:59	0024	9807	0	
ē1	2003/11/36	11:038	0024	082	0	
а						

Measuring Object	Airborne Particulate Matter < φ 10 μm		
Measuring Range	0.02-10mg/m ³		
Sampling Flow Rate	1liter/min		
	Preset: 120 sec or 24 sec		
Measuring Time	Manual: 10sec to 3600sec		
	+/-10% of rdg +/-1 digit (0 to 5mg / m ³)		
Accuracy	+/-20% of rdg +/-1 digit (5 to 10mg / m ³)		
	Cleaning is required after every 10-20 measurements.		
Cleaning Frequency	"CLEANING" will appear on the display when it needs to be cleaned.		
Data Logging	Max 500 date and time stamped samples		
Digital Output			
(To PC or printer)	RS232C (Baud Rates 4800, 9600, and 19200)		
Power Supply	AC (85V-240V) or DC Ni-MH battery		
	2.6" x 5.9" x 7.1"		
Dimensions	(65 x 150 x 180mm)		
Weight Approx. 4.4lbs. (Approx. 2kg)			

Digital Aerosol Monitor Model 3431

Compact Dust/Aerosol Monitor

NIST Traceable



Indoor Air Quality Investigation Industrial Hygiene Health & Safety Applications Exposure Monitoring Manufacturing Process Control

Features:

- State-of-the-art components based on advanced light-scattering technology
- Compact and Light Weight
- Easy operation

Benefits:

- Accuracy is ensured to meet the latest needs of dust measuring in extremely clean indoor environments
- All measurements can be made with a touch of a button on the front panel.
- Allows the user to pre-enter the known concentration conversion value and let the unit automatically convert the dust count into mass concentration

Measuring Method	Light Scattering Method	
Measuring Object	Aerosol particles, ϕ 10µm or smaller	
Measuring Range	$0.001 - 3.999$ mg/m ³ (1 – 9999cpm, 1cpm=0.001mg/m ³ for $\phi 0.3$ µm stearic acid particles)	
Accuracy	+/-10% of reading +/-1cpm (or 0.001mg/m ³)	
Linear Characteristics	+/- 5% of reading	
Measuring Time	1 minute / 3 minutes / 10 minutes with built-in timer, and continuous mode	
Light Source	Laser diode	
Detector	Photo diode	
Operating Environment	35 – 104°F (5 – 40°C) under 85%RH	
Display	4-digit LCD, dust count value (cpm), relative mass concentration value	
Indiactora	Cleaning, measuring mode, battery status, concentration conversion operation, zero point	
Indicators	confirmation	
Output Analog output, 0 – 10,000cpm = 0 – 4V		
Power Supply	AC 100V adapter and dry cell batteries (6 x AA batteries)	
Dimensions 6.4" x 2.4" x 39" (162 x 62 x 100mm) not including the nozzles		
Weight	2.2 Lbs. (1kg) not including batteries	
Accessories	AC adapter, micro-screwdriver, alkaline dry cell batteries (6 x AA) shoulder strap	
Options	Carrying case, Soft case, Analog output cable	



Specifications

Handheld Laser Particle Counter MODEL 3887

Cleanroom certification IAQ investigations Food Industry Filter Testing Aerospace Hospital Surgical Rooms Paint Spray Booths

Features:

- Displays 3 particle sizes simultaneously (0.3, 0.5, 5.0 um) in cf or m³
- Built-in flow sensor (0.1 CFM +/- 10%)
- User can log up to 8,000 measurements with easy transmission to PC or Printer.
- Fits in your palm

Benefits:

- Batteries can be altered with regular AA alkaline batteries
- Comes with a network capable of up to 8 units using optional Windows software
 - as a standard accessory

Measuring Particle Size	0.3, 0.5, 5.0um		
Light Source	Laser Diode		
Counting Efficiency	50% @ 0.3 um; 100% for particles > 0.45 um (per JIS B9921: 1997)		
Zero Count	≤1 count / 5 minutes (per JIS B9921: 1997)		
Coincidence Loss	<5% @ 2,000,000 particles/cf		
Flow Rate	0.1 cfm (2.83l/min)		
Sampling Time	1 sec to 99 minutes 59 sec (1 sec increments)		
Sampling Frequency	1 to 99 times or Continuous		
Count Alarm	1 - 70,000,000 counts		
Mode of Measurements	Single / Repeat / Continuous / Calculation / Remote / ISO <c4< td=""></c4<>		
Display	20 letters, 4 lines		
Error	Max. concentration, Laser Power, Flow Rate and Battery		
Interface	RS232C or RS485		
Baud Rate	9600bps		
Buffer Memory	8000 measurements		
Power Supply	4 x AA NiMH battery or Alkaline, AC Adapter (100 - 240V)		
Operating Hours	Approximately 3 hours (NiMH)		
Dimensions	4.3" x 7.7" x 2.7" (108 x 196 x 68 mm)		
Weight	1.5 lbs (680g)		
Operating Conditions	50 - 95°F (10 - 35°C)		
Accessories	AC Adapter, Zero Filter, Software, Communication Cable, 4xAA NiMH, Battery Charger		
Options	Printer, Printer Cable, Carrying Case, Tripod		



NIST Traceable

CE



Handheld Laser Particle Counter MODEL 3886 GEO- α CE

NIST Traceable

Cleanroom certification IAQ investigations **Food Industry Filter Testing** Aerospace **Hospital Surgical Rooms Paint Spray Booths**

Features:

- Measures 5 particle sizes simultaneously (0.3, 0.5, 1.0, 3.0 and 5.0 um) in cf or m³, displaying 2 channels
- Built-in flow sensor (0.1 CFM +/- 10%)
- Temp./RH and Air Velocity probes available as an option
- Capable of measuring up to 4 parameters in one instrument.

5 Size C	hannels	0.3 um; 0.5 um; 1.0 um; 3.0 um; 5.0um	
Flow Rate		0.1 cfm (2.83 l/min)	
Light Source		Laser Diode	
Calibration		PSL particles in air	
Counting	Efficiency	50% @ 0.3 um; 100% for particles > 0.45 um (per JIS B9921: 1997)	
Zero Cou	unt	≤1 count / 5 minutes (per JIS B9921: 1997)	
Coincide	ntal Loss	<5% @ 2,000,000 particles/cf	
Sampling	g Time	1 sec - 99 min 59 sec, 1 second increment	
Sampling	g Frequency	1 - 99 or continuous	
Count Modes		Single, Repeat, Continuous, Calculation and Remote	
Display		20 letters, 4 line LCD	
Interface		RS232C or RS485	
Baud Rate		9600 bps	
Buffer M	emory	500 sample records	
	AC Adapter	5VDC at 2.5A, 100 - 240VAC, 50 to 60 Hz	
Power	Rechargeable	4 x AA NiMH	
	Battery	3.5 hrs with 1600mAh batteries	
Vacuum	Source	Internal pump, flow controlled	
Dimensions		4.5" x 2.8" x 8.5" (115 mm x 70 mm x 211 mm)	
Weight		2.2 lbs (1 kg)	
Accessories		AC Adapter, Zero Filter	
Ontions		Isokinetic Probe, Air Velocity Probe, Thermal Printer,	
Options		Temperature/Relative Humidity Probe, Carrying Case	

Airborne Particle Counter Model 3900

Portable Laser Particle Counter

NIST Traceable

CE



Monitor and verify cleanrooms Pharmaceutical, Food Industry, Semiconductor Filter testing Facility certification

Features:

- 28.3 L/min (1.0 cfm) flow rate
- 0.3 micron minimum sensitivity
- Store up to 5000 measurements
- All stainless body
- Large touch screen
- Multi-function: Measuring particle, airflow, temperature relative humidity, and differential pressure

Spe	cific	ation	S
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Light Source	Laser Diode
Channel Sizes (μ m)	0.3, 0.5, 1.0, 3.0, 5.0, 10.0
Flow Rate	28.3 lpm (1.0 cfm)
Zero Count Level	1 count or less in 5 minutes
Counting Efficiency	50±20%
Spurious Count	0.3 count/cf or less
Max Detectable Concentration	500,000 counts/cf (17,667.8 counts/L)
Sample Time	1 second to 23 hrs 59 min 59 sec
Delay Time	0 second to 23 hrs 59 min 59 sec
Sampling Cycles	1 - 9,999 while in repeat mode
Location Labels	0 - 999 appears on display and printout
Display	6.4 inch color touch screen
Data Storage	5,000 samples (when using standard 512MB CF card)
Printer	Built in (compatible with Dust-free Paper)
Hardware Interface	Ethernet
Operating Time (Battery)	4 hours continuous operation
Battery Type	Removable Li-ion
Charging Time	6 hours
Power	AC 100 - 240V, 50 to 60Hz
Dimensions	W 8.3 x D 8.6 x H 12.5 inches (21 x 22 x 32 cm)
Weight	17.5 lbs (8 kg)
Enclosure Material	Stainless Steel
Operating Environment	50 to 104°F (10 to 40°C)
Warranty	1 year (Instrument) / 2 years (Laser Diode)
Standard Accessories	Operation Manual, Isokinetic Probe, Power Cable, Battery & Charger Printer Paper (2 rolls), Zero Filter, USB Cable, Data Download Software (Windows)
Optional Accessories	Carrying Case, Spare Battey, Battery Charge, Temperature and Humidity Probe Air Velocity Probe, Differential Pressure Sensor

Particle / Dust Monitor Cleanroom Facility Monitoring

Condensation Nucleus CounterMODEL 3855NIST Traceable



Cleanroom Monitoring IC Production HDD Testing MEMS

Features:

- Condensation Nucleus Counter for continuous multi-point monitoring in cleanroom.
- 0.01 μ m sensitivity.
- · Less downtime by less alcohol replacement.
- · Easy checking of the current status on the LEDs

Benefits:

- Ideal for ultrafine particle detection
- Easy maintenance
- No more headaches in cleanroom using Propylene Glycol

Туре	Sensor-Counter Isolated Type		
Principle	Vapor/Air Mixing Type Condensation Particle Counting		
Maximum Concentration	3×106 Particles / cf (100 Particles/cc)		
Sensitivity	0.01µm (50% Counting Efficiency)		
Measuring Accuracy	0.02µm: 100% ± 10%		
Coincidence Loss	Less than 5% at 3,000,000 Particles/cf		
Sampling Flow Rate	0.1CFM (2.83L/min) ± 10%		
Flow Rate	4.2 ± 0.4L/min (Requires external vacuum source)		
Alcohol	Propylene Glycol		
Indicators	Ready, Liquid Level, Flow, Optics, Particle		
Interface	RS - 232C and RS - 485		
Output	Output for M/P or Analog Output		
	Temperature: $20{\sim}30^{\circ}$ C ($68{\sim}86^{\circ}$ F)		
	Clean Air Environments (e.g. Clean Rooms)		
Dimensions	9.8" x 9.8" x 11" (250 × 250 × 280mm) (Excludes alcohol bottle)		
Weight	Approx. 22lbs (10Kg)		
Power Supply	AC100 \sim 240 V		
Accessories	AC Cable, Operation Manual, Alcohol Bottle (200cc), Bottle Holder		
Options	Alcohol Bottle (1000cc), Bottle Holder (for 1000cc)		



Facility Monitoring Laser Particle Sensor MODEL 3792

NIST Traceable



Cleanroom monitoring Pharmaceutical, Aerospace/ Defense **Electronics, MEMS, Semiconductor** Food processing **Medical / Hospitals**

Features:

- 0.2um/0.3um sensitivity
- · Built-in sonic nozzle for accurate and consistent flow
- Built-in LEDs for sensor status at a glance
- · Compact stainless body
- Temperature/Relative Humidity sensors available as option
- Status LED shows Particle, LD Status, and Flow

Model		3792-01	3792-03	
Sampling Air Flow		2.83 l/min	1 l/min	
Sensitivity		0.2 μ m , 0.3 μ m	0.2 μ m, 0.3 μ m	
Condensatio	n Range	1,000,000 pieces / cf	3,000,000 pieces / cf	
	Туре А	RS-485 Output Connector Type RS-485 IN Modular Connector 8-pin (rear panel) RS-485 OUT Modular Connector 8-pin (rear panel) Transmission Setting: DIP switch 8-pin (front panel)		
		Address Setting(0-999): Rotary DIP switch, 10 positions x 3 (front panel) Multiplexer Output Connector Type: BNC Connector		
Output	Туре В	 4-20mAOutput Output: Data for 2 particle size ranges and Sensor Status Connector Type: D-sub Connector 9-pin (rear panel) Indicative Resolution: 1/1000 of the full scale Full Scale: 3 levels (100、10,000、1,000,000 pieces / cf) Full Scale Selection: Sliding DIP switch 8-pin (front panel) Multiplexer Output Connector type: BNC Connector 		
Display		5-Digit LCD Optional Display unit available (needs to be exchanged with the supporting casing) Condensation Display (Running Average for pre-set time) SIZE key gives selection of Particle size range to monitor		
Status LED		PARTICLE: Turns Red when picking the signal of the particleSTATUS:Steady Green when Optics is operating normally.FLOW:Turns to Green when Sampling Flow rate is normal		
Power Supply		AC 100V-240V		
Dimensions		4.6" x 5.3" x 6.7" ((Excluding sampling air nozzle on the u Also excludes	(118 \times 135 \times 170 mm) upper surface and other interface outfit. s rubber feet.)	
Weight		Approx. 6.6lbs (Approx. 3kg)		

Cleanroom Facility Monitoring

Facility Monitoring Laser Particle Sensor MODEL 3714/3715

NIST Traceable





Cleanroom Facility Monitoring

- Pharmaceutical
- Aerospace/ Defense
- Electronics
- Semiconductor
- Food Processing
- Medical / Hospitals

Features:

- 0.3um/0.5um for Model 3714 & 0.5 um /5.0 um for Model 3715 sensitivity
- Built-in sonic nozzle for accurate and consistent flow
- Built-in LEDs for sensor status at a glance

Benefits:

- Compact stainless body
- Temperature/Relative Humidity sensors available as option
- Status LED shows Particle, Status (LD), and Flow (Optional)

Model	3714	3715	
Particle Sizes	0.3um/0.5um	0.5um/5.0um	
Flow Rate	0.1CMF (2.83 L ∕ min)		
Concentration Range	0~1,000,000 particles / cf		
Flow Control	Sonic nozzle (Requires external vacuum source)		
Light Collection	Laser-light-scattering, wide-range light collection by side mirror		
Light Source	780nm Laser diode (LD)		
Light Detector	Photodiode		
Status LED	PARTICLE, STATUS (LD), FLOW (Optional)		
Measuring Accuracy	+/-10% of reading		
Interface	RS-485		
Connector Type	RJ45 connector		
Power Supply	Supplied from the Distributor or Power Unit		
Dimensions	2.8" x 5.0" x 1.6"		
	(72 × 126 × 40mm)		
Weight	Approx. 2.2	lbs (Approx. 1kg)	

Cleanroom Facility Monitoring

Cleanroom Monitoring System



Features:

- · On-site monitoring of condensation by built-in LCD
- Light and compact body does not require large space
- CPU loaded and RS485 output
- Steel stand and attachment plate for various installation needs
- Quick connect cabling via modular connection
- Simple vacuum tubing/pressure connected



- Compact laser particle sensor (LPS) with built-in LCD for continuous monitoring of aerosol level
- Multi-function, use-friendly monitoring software
- Reduced piping & wiring using a single compact pump for entire system
- Interface unit for environmental sensors such as temperature, relative humidity, differential pressure, etc.

Distributor (Model 3770)



Supplies power to a maximum of 8 sensors or interface units.

Input	8 channel RS-485		
Interface	Baud: 4800/9600/19200bps		
Power	AC 85-132V/170-264V		
Dimensions	11.8" x 3.9" x 7.9"		
	(300 x 100 x 200mm)		
Weight	Approx. 6.6lbs (Approx. 3kg)		

Aerosol Research Instrumentation

Hand-held Condensation Particle Counter Model 3800

NIST Traceable



Indoor Air Quality Investigation Aerosol Research Filter Tests Environmental Monitoring for

- Electronics
- Food Processing
- Pharmaceutical
- Medical / Hospital, etc.

Features:

- 0.015 µm sensitivity
- Concentration range of 0 to 100,000 particles/cm3
- Programmable data-logging capabilities
- Power Supply can be selected from alkaline/Ni-MH battery or AC adapter
- Simple to download the data to your computer via USB

Measuring Particle Size		0.015 to > 1µm		
Concentration Range		0 to 100,000 particles/cm ³		
Counting Efficie	ency	50nm: 100±20% (15nm: More than 50%)		
Zero Count		Less than 1 particle/ cm ³		
Flow Rate		Aerosol Flow: 100cc/min		
		Total Flow: 700cc/min		
Alcohol	Туре	100% reagent-grade isopropyl alcohol		
Supply	Hours per Fill	Approx. 5 hours at 23°C (73° F)		
Absolute Pressure Sensor		150 to 1150 hPa		
Mode of Measurements		Repeat / Program / Counter		
Display		Built-in LCD(128 x 64 dots)		
Interface		USB		
Buffer Memory		Max. 10,000 measurements		
Power Supply Type 6 pieces of AA-size Alkaline / Ni-MH battery		6 pieces of AA-size Alkaline / Ni-MH battery or AC adapter (Input 100 – 240V)		
	Operating hours	Approx. 5 hours (By Alkaline batteries); Approx. 8 hours (By Ni-MH batteries)		
Environmental	Operating	Ambient temperature range: 10 to 35°C (50 to 95° F)		
Condition				
Dimensions		4.7"(W) x 11"(H) x 5.1"(D) (120 x 280 x 130mm)		
Weight		Approx. 3.3lbs (1.5kg) (without batteries)		
Standard Accessories		AC adapter, Zero filter , Alkaline battery×6, Operation manual,		
		Software(for Windows), PC Communication Cable, Carrying Case		
Options		Ni-MH battery (1.2V-2500mA) x 6, Charger x 2,		
		Printer, Printer cable, Printer AC adapter		

Aerosol Research Instrumentation

Aerosol Particle Mass Analyzer Model APM-3600

This analyzer classifies the mass of a single aerosol based on the balance between centrifugal force and electrostatic power



Diesel Exhaust Aerosol Research Nano-Particle Aerosol Research Atmospheric Aerosol Research Bio-Chemical Applications



Features:

The APM-3600 classifiers particles for each particle size, based on the aerodynamic movement of the particles. This analyzer uses our own rotating mechanism and seal technologies, as well as taking into consideration the static effects and flow of the fluid.

Main Body Specifications

Classifying method	Classification is based on the balance between centrifugal force and static power.		
Classifying mass range	Approx. $0.01 \sim 100$ Femto-gram (For particle concentration of 1g/cm ³ approx. 40nm \sim 500nm, classification accuracy is within ±30% regarding center mass)		
Double cylinder rotating	\sim 8,000rpm		
Double cylinder high voltage	\sim 3,000V		
Double cylinder dimensions	Inner cylinder diameter: 3.9" (100mm), Outer cylinder diameter: 4.1" (104mm), Cylinder length: 9.8" (250mm)		
Sampling Flowrate	Above 1L/min		
Dimensions	15.7" x 15.7" x 47.2" (400mm x 400mm x 1200mm)		
Weight	Approx. 165lbs (75kg)		

Control, Display

Control function	Rotation rate and applied voltage		
Display function	Applied voltage / Rotation rate / Differential pressure (Panel display)		
Control Method	Control by panel, Control by PC (By Manual / Remote Switch)		
Dimensions	16.9" x 16.9" x 11.8" (430mm x 430mm x 300mm)		
Weight	Approx. 55lbs (25kg)		
Power supply	AC100V、50/60Hz		

Fluid Mechanics Research Instrumentation

Smart LDV System

High Quality and Compact LDV System

Features:

- The best device for precision PIV calibration and measurement of medium or low velocity
- Easy to use

Specifications

Available velocity		-10m/s~30m/s (Please contact us of the application to over 30 m/s.)		
	Laser	Laser Diode, λ =635nm, 10mW		
Optics	Focal Distance	150mm (Options : 170mm, 200mm, 250mm)		
	Measurement Volume	0.09mm×0.7mm		
	Measurement Method	Back Scattering/Forward Scattering		
		(A retro reflector mirror is used with a standard model to obtain high signal quality)		
	Probe Size	60 mm $\phi imes 300$ mm		
	Shift frequency	0.01-10MHz (1-2-5step)		
	Signal Processing	8-bit FFT (512,256,128 points)		
Signal	Frequency Range	1kHz~40MHz (8 ranges)		
Processor	Max. Data Rate	8000 Data/sec		
	Effective Judgment	Burst spectrum ratio		
	Computer	IBM PC Compatible		
Software	Max. Number of Data	99,000		
	Realtime Monitor	Burst signal, Burst spectrum, Velocity histogram		
	Data Processing	Mean velocity, Turbulence intensity, Skewness factor,		
		Flatness factor, Velocity histogram, Time history		
	Data Output	CSV Format		







SmartL'D'V

R & D / Test Instrument and System

Amenity Manikin

For Automotive Interior Environmental Measurement



R&D Design Engineering

Features:

The life sized Manikin is designed to accurately emulate the positioning of a driver or passengers torso, arms and legs while seated in the vehicle passenger compartment. Placement and positioning is simple and data collection can be started immediately. The Manikin deploys over 120 sensors that can be custom configured by the end-user on-sight. There are 4 sensor types to choose from that include Air Velocity, Air Temperature, Relative Humidity and Radiant Heat. The system components include the Manikin with built-in data processor, Sensors, Power and Data Transfer Unit, PC Interface, Monitoring PC and Data-Logging Software. Up to 2 Manikins can be linked to a single monitoring PC.

Manikin Specifications

Height	Approx 5'7" (Approx. 170cm)			
Weight	88lbs (40kg) including data processor			
Material	Plastic (FRP)			

Sensor allocations (example)

	Air Velocity	Temperature	Relative Humidity	Radiant Heat
Head	4	12	1	3
Upper Torso	12	33	0	5
Lower Torso	20	33	1	4
Total	36	45	2	12



Sensors Specifications

Air Velocity	Range	20 – 984fpm (0.1 - 5 m/s)		
	•	20 – 394fpm (0.1-2m/s)	\pm 10fpm (0.05m/s)	
	Accuracy	394 - 984fpm (2-5m/s)	\pm 20fpm (0.10m/s)	
Temperature	Range	-22 – 212F (-30 - 100°C)		
	Accuracy	±4.6F (3°C)		
	Range	3-95%RH		
I I	Accuracy	3-30%RH	\pm 3%RH	
Humidity		30-75%RH	\pm 2%RH	
		75-95%RH	\pm 3%RH	
Radiant Heat	Wavelength	0.3-40µm		
	Range	0-1Kw/m2		
	Accuracy	± 7%		

equipment

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