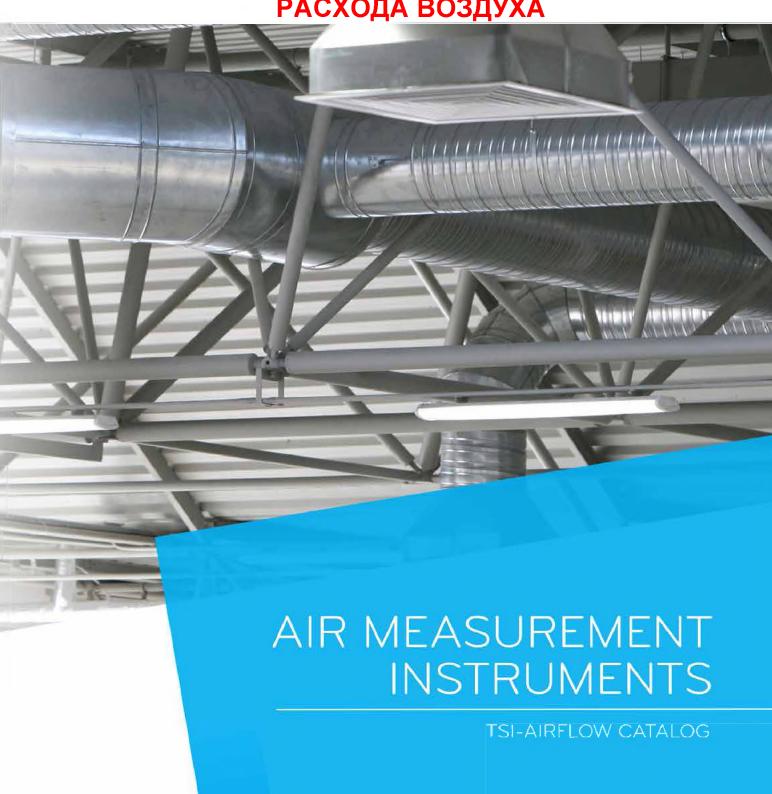
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КАТАЛОГ ПРИБОРЫ ДЛЯ ИЗМЕРЕНИЯ РАСХОДА ВОЗДУХА



ACCURATE. RELIABLE EVERY TIME.

About Airflow Instruments

In 1955, from one man's expertise in the field of air flow measurement and fan design, Airflow Developments Limited was founded. Designed by air measurements experts, Airflow Instruments earned a reputation as being innovative, accurate, and reliable. Today, Airflow Instruments are manufactured to the stringent requirements of ISO9001.

In 2005, TSI Incorporated acquired the Instrument Division of Airflow Developments, combining over 90 years of expertise and innovation in air measurement. Through investment in research and development, we continually seek new ways of measuring air flow and other ventilation parameters.

Airflow products are accurate, high quality, professional grade instruments used by a wide range of customers, including building service contractors, commissioning specialists, facility engineers, and research professionals.

Service and Support

You can expect fast turnaround times for calibration and repair service for your Airflow Instruments. Our extensive network of world-class distributors is standing by to provide you with outstanding local support. Detailed product specifications, as well as service information, is available



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AIRFLOW CALIBRATED INSTRUMENTS ARE SUPPLIED WITH A FREE FULLY TRACEABLE CERTIFICATE OF CALIBRATION.

ANEMOMETERS BUILT FOR VERSATILITY

MULTI-FUNCTION ANEMOMETERS

TA465 Series

Calculations include air flow, wet bulb, dew point, and turbulence. The instruments are compatible with a range of optional probes that have a versatile choice of features and functions. An articulated model (TA465-A) is also available.

- + Displays up to five measurements simultaneously
- + Optional 'smart' plug-in probes, including CO, $CO_{2'}$ rotating vane probes, and VOC (volatile organic compounds)
- + Data logging and downloading software included
- + Pre-program up to five duct dimensions and pressure Kfactors
- + Intuitive menu structure allows for ease of setup and use







THERMAL ANEMOMETERS

Models TA440, TA430

The Model TA440 and TA430 are like having multiple meters for the price of one, yet simple to operate. Purchase instruments with straight or articulated probe- all in one compact package. Both models measure velocity, temperature and calculate flow. The Model TA440 also measures relative humidity, calculates dewpoint and wetbulb temperature.

Features and Benefits

- + High accuracy over a wide velocity range
- + Easy to read display
- + Includes calibration certificate
- + Data logging and downloading software included

Model TA 410

The TA410 digital velocity meter is a solid choice for an Air Velocity Meter, without compromising accuracy and precision. It is perfect for troubleshooting HVAC systems and conducting commissioning work.

- + Range is 0-20 m/s
- + Large, easy to read display
- + Press button to hold reading



ROTATING VANE ANEMOMETERS



Model LCA301

Model LCA301 is a light weight, robust, and simple to use Rotating Vane Anemometer that provides accurate and reliable readings every time. Ideal for HVAC commissioning at grilles, ducts, and diff users; the LCA301 displays readings in metric or imperial mode.

Caractéristiques et avantages

- + Reversible 100 mm head allows readings at supply and extract grilles
- + Calculates volumetric flow rate
- + Compatible with Aircone Flow Hoods
- + No density correction factors required
- + Automatic averaging of air velocity



AIRCONE FLOW HOODS

Aircone Flow Hoods are a fast and accurate method of maximizing the usefulness of your 100 mm rotating vane anemometers. For a modest investment, you can double the capability of your rotating vane, turning it into an air volume flow balancing tool.

- + Rectangular and circular cones available
- + Measures volumetric flow at grilles, diff users, air valves, and linears
- + Reads air volume quickly and accurately
- + Excellent choice for small grilles
- + Compatible with LCA301 and LCA501







VOLUME & PRESSURE PRODUCTS

CAPTURE HOODS

Models PH731

The PH731Capture Hood is a multipurpose electronic air balancing instrument primarily used for efficiently taking direct air volume readings at diffusers and grilles. It features a detachable micromanometer which can be used with optional probes for increased flexibility in multiple measurement applications. Offering durable, trouble-free operation, this lightweight, ergonomically designed capture hood kit saves time and money by combining multiple measurement tools into one package. The PH731 ProHood Capture Hood helps you create healthy and energy efficient environments while meeting local codes, guidelines and regulations for ventilation systems.

- + Ergonomic design and ultra light weight for easy, one-person operation
- + Automatically senses and displays supply or return flows, saving time on the job
- + Back pressure compensation ensures accurate readings
- + Multiple hood sizes available for easy, cost effective use across multiple jobs
- + Detachable digital micromanometer offers flexibility to use in multiple applications
- + Includes Swirl X Flow Conditioner for use with twist or swirl type supply air diffusers



MANOMETER

Model PH730

The PH730 is one of the most advanced, versatile, and easy-to-use micromanometers on the market today. The PH730 features an auto-zeroing pressure sensor that increases measurement resolution and accuracy along with an intuitive menu structure for ease of operation.

Features and Benefits

- + Accurately measures pressure, velocity (Pitot), and flow
- + Large, easy to read display
- + Data logging and downloading software included
- + Bluetooth®* communications
- + Built-in duct traverse mapping application
- + Resolution: 0.001Pa

OPTIONAL ACCESSORIES FOR PH731 AND PH730

- + Air flow probe
- + Temperature probe
- + Temperature/humidity probe
- + Thermoanemometer probes
- + Velocity matrix



MICROMANOMETERS

Models PVM620, PVM610

The PVM620 is a rugged, compact, comprehensive Micromanometer that measures pressure, and calculates velocity and volumetric flow rate. It can be used with Pitot tubes to measure velocity and then calculate flow rates with user-input duct size and shape. Premium features make it ideal for HVAC, environmental safeguards, commissioning, process control and system balancing.

The PVM610 is an easy to use, hand held digital Micromanometer for fast, accurate and reliable pressure measurement. It can also calculate velocity.

Features and Benefits PVM620 and PVM610

- + Measures differential and static pressure from -3735 to +3735 Pa
- + Calculates and displays velocity when using a Pitot tube

Added Features PVM620

- + Calculates volumetric flow rate in duct from velocity and user-input duct size and shape
- + Preset up to 5 round or rectangular duct sizes
- + Preset up to 5 k factors
- + Records data points in duct traverse using sampling function
- + Data logs up to 12,700 samples and 100 test IDs with time and date stamp
- + Includes LogDat2 downloading software



Model PVM620



Bluetooth® function is not available in Asia Pacific countries.

VOLUME & PRESSURE PRODUCTS



HYDRONIC MANOMETERS

Models HM675 and HM685

The HM675 and HM685 Hydronic Manometers are used to balance hydronic heating and cooling systems, check pump performance and to set balancing valves. They can measure and display differential, high side and low side pressure simultaneously, without having to change hose connections or instrument valve settings. Each model features a backlit display and operates on four alkaline or NiMH rechargeable batteries.

Features and Benefits

- + Measure and display high side, low side, and differential pressure simultaneously from 0 to 300 psi (0 to 2,068 kPa)
- + Robust, splash-proof case
- + Inputs for two temperature probes

Features and Benefits (HM685 only)

- + Calculates flow using valve manufacturers' Cv (Kv) factors [up to 100 Cv (Kv) can be entered]
- + Calculates heat flow, impeller diameter and brake power
- + Stores up to 4,000 data points to memory for later recall/download to a PC using CompuDat™ USB Software and USB interface cable
- + Intuitive menu structure for easy navigation and instrument set up



LEAKAGE TESTERS

POSITIVE AND NEGATIVE DUCT ACCREDITATION (PANDA) SYSTEM

Model PAN341 Light

The Positive and Negative Duct Accreditation (panda) system provides contractors, commissioning engineers, and research and development technicians with the best in class choice of test equipment to quantify air leakage in ductwork and other areas as well as the ability to measure the performance of ducted systems. The panda provides a fast, accurate, automated solution and helps to ensure compliance with EN12237, EN1507 and eurovent 2/2 standards, enhancing energy savings in buildings.

Features and Benefits

- + Positive and Negative Duct Leakage Testing in one rig
- + Energy savings by testing and minimizing duct leaks
- + Accuracy is $\pm 2,5\%$ of volume flow
- + Unique performance and fan speed control charge up of duct system to test static pressure within minutes
- + Weighs 55 Kg (121 lbs.)
- + Fits in the back of vans and estate cars
- + Model PAN341 comes with standard Airflow TA465-P Multi-Function Instrument and PVM610

Micromanometer.

- + Automatically calculates leakage rate in real time.
- + Simultaneous displays flow leakage rate and static pressure



INDOOR AIR INSTRUMENTS



INDOOR AIR QUALITY MONITORING FOR HEALTHY, EFFICIENT ENVIRONMENTS

Work environments, as well as homes and businesses, often require that people spend a majority of their time indoors. As a result, individual's long-term health and comfort are largely dependent upon indoor air quality testing. Businesses are increasingly interested in air quality monitoring systems to keep an eye on the conditions that maximize worker productivity and save energy.

ACCURATE AND DEPENDABLE AIR MONITORING INSTRUMENTS FROM TSI

TSI provides a full line of indoor air quality monitoring equipment that gauge temperature, humidity, outdoor air calculations, carbon dioxide, carbon monoxide and airborne particles. These factors are some of the primary components that help measure occupant thermal comfort and assure a healthy indoor environment.

IAQ-CALC™ INDOOR AIR QUALITY METERS

Model 7545

The 7545 model simultaneously measures and data logs multiple parameters. Measurements are CO, CO₂, temperature, humidity; and calculations are dew point, wet bulb temperature, and % outside air.

- + Low-drift NDIR CO₂ sensor for stable, accurate readings
- + Electrochemical sensor measures CO
- + Temperature and relative humidity measurements help determine thermal comfort
- + Calculates dew point and wet bulb temperatures
- + Calculates % outside air from either ${\sf CO}_2$ or temperature
- + Displays up to three parameters
- + Logs up to 26,900 data points
- + Includes downloading software and USB interface cable



Model 7545

IAQ-CALC INDOOR AIR QUALITY METERS

Model 7525

The Model 7525 simultaneously measures and data logs multiple parameters such as carbon dioxide (CO_2), temperature, and humidity; and calculates dew point, wet bulb temperature, and % outside air.

Features and Benefits

- + Displays up to three parameters
- + Low-drift NDIR CO₂ sensor for stable, accurate readings
- + Temperature and relative humidity measurements help determine thermal comfort
- + Calculates percent outside air from either CO₂ or temperature
- + Calculates dew point and wet bulb temperatures
- + Includes downloading software and USB interface cable

IAQ-CALC INDOOR AIR QUALITY METERS

Model 7515

The Model 7515 is a cost-effective meter for carbon dioxide ($\mathrm{CO_2}$) measurements.

- + Integrated low-drift NDIR CO₂ sensor for stable, accurate readings
- + Sampling function
- + Ergonomic, overmolded case design



AIR MONITORING

Models 8455, 8465 and 8475

The 8455, 8465, and 8475 Air Velocity Transducers are ideal for both temporary and permanent installations for air velocity measurements in research and development labs, manufacturing processes, and other applications. The full-scale range, signal output, and time constant are user-selectable and can be easily changed to meet the needs of your application.

- + The 8455 is a general purpose transducer with a protected tip and rugged ceramic sensor
- + The 8465 has a windowless sensor for measurements in confined spaces
- + The 8475 features an omni-directional sensor which makes it accurate at very low velocities and for use when flow direction is unknown

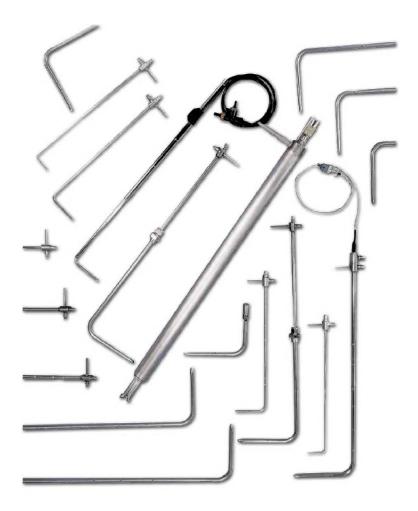




PITOT STATIC TUBES

Choose from a comprehensive range of Pitot Static Tubes offering telescopic, fixed length, to suit virtually any application. Also available are Pitots with adjustable mounting glands for permanent installations. Manufactured from a high grade stainless steel, all Pitots are durable and tolerate aggressive conditions. They are suitable for sensing in heating, ventilation, and air conditioning equipment including commissioning and troubleshooting.

- $\,$ + Totally compatible with manometers, pressure gauges, and transmitters $\,$
- + Use for COSHH assessment and environmental monitoring
- + Excellent accuracy, K-factor 0.997
- + Excellent yaw and pitch characteristics
- + Spring slip markers for insertion
- + Direction pointer to ensure correct alignment



PARAMETERS AND FEATURES CHART

THE CHART BELOW IS A GUIDE FOR SELECTING AN INSTRUMENT TO BEST FIT YOUR MEASUREMENT NEEDS.

	Model	Air Velocity	Temperature Reading	Flow Rate	Differential Pressure	Humidity, %RH, Dew Point, Wet Bulb	% Outside Air	CO ₂ (Carbon Dioxide)	CO (Carbon Monoxide)	VOC (Volatile Organic Compounds)	Density Correction	K-factor	Data Logging/ Down- loading	Review Data	Statistic	Variable Time Constant	Field Calibration Adjustment	Blue- tooth*	Back-lit Display	Optional Plug-In Probes
Anemometers	TA410	T	+																	
	TA430	Т	+	Т							+		+	+	+	+	+		+	
	TA 430-A1	Т	+	Т							+		+	+	+	+	+		+	
	TA440	Т	+	Т		+					+		+	+	+	+	+		+	
	TA440-A1	Т	+	Т		+					+		+	+	+	+	+		+	
	TA465	T, P	+	T, P, C	+	+	0	0	0	0	+	+	+	+	+	+	+	+	+	+
	TA465-A1	T,P	+	T, P, C	+	+	0	0	0	0	+	+	+	+	+	+	+	+	+	+
Rotating Vanes	LCA501	R	+	R									+	+	+	+	+		+	
	LCA301	R	+	R																
Air Velocity Transducers	8455	Т														+				
	8465	Т														+				
Tranodacaro	8475	Т														+				
ProHood	PH731²	Р	+	D, P, C	+	0					+	+	+	+	+	+	+	+	+	+
Micro- manometer	PH730	Р	0	P, C	+	0					+	+	+	+	+	+	+	+	+	+
	PVM610	Р			+															
	PVM620	Р		P, C	+						+	+	+	+	+	+	+		+	
IAQ-Calc	7515							+							+	+	+			
	7525		+			+	+	+					+	+	+	+	+		+	
	7545		+			+	+	+	+				+	+	+	+	+		+	

PH731-STA Bundle

Bundle & PH731- Includes: PH731 ProHood Capture Hood, Capture Hood Stand Smart Tablet* loaded with LogDat mobile app and instruction videos Save STA *TSI has the discretion to change the brand and the model of tablet at any time.

All instruments include a free NIST or EAL	. Certificate of (Calibration. ¹ Articulating Probe ² Back Pressure Compensated							
	Optional Probes for VelociCalc TA465 Series								
	Model	Probe Description							
+ = Standard Feature	960	Air Velocity and Temperature, straight probe							
T = Thermal Anemometer	962	Air Velocity and Temperature, articulating probe							
D D': : # 1 D 1'	964	Air Velocity, Temperature, and Humidity, straight probe							
P = Pitot Tube Reading	966	Air Velocity, Temperature, and Humidity, articulating probe							
C = Calculated from	995	100 mm (4 in.) Rotating Vane probe							
Differential Pressure	792	Surface Temperature probe							
R = Rotating Vane	794	Air Temperature probe							
Anemometer	980	Indoor Air Quality probe, CO ₂ , Temperature, Humidity							
O = Ontional	982	Indoor Air Quality probe, CO ₂ , Temperature, Humidity, CO							
O = Optional	984	Low Concentration (ppb) VOC and Temperature							
D = Direct Reading	985	High Concentration (ppm) VOC and Temperature							
	986	Low Concentration (ppb) VOC, Temperature, CO₂, and Humidity							
	987	High Concentration (ppm) VOC, Temperature, CO ₂ , and Humidity							

ProHood, TSI and the TSI logo are registered traduum rks and Airflow, the Airflow logo, LogDat2 and IAQ-Calc are trademarks of TSI Incorporated.

The Bluetooth registered trademark is owned by the Bluetooth Special Interest Group (SIG).

Bluetooth function is not available in Asia Pacific countries.

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Саратов (845)249-38-78
Севастополь (8652)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Таджикистан (992)427-82-92-69

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