



Committing to the future

Multifunction Instrument for:

Air Flow

IAQ / IEQ

testo
435

Commissioning
& Energy
Management





model 435 – The go-to instrument for HVAC Measurements

The testo 435 is the preferred instrument for today's professional air balancing contractors, commissioning experts, and building energy management specialists. Configurable with an arsenal of probes, you can easily pinpoint and troubleshoot problems with HVAC systems and see the results of your corrections immediately. Quickly and easily verify system performance to provide real time **BTU/hour readings**.

For the determination of Indoor Air Quality, the parameters CO₂, relative humidity and indoor air temperature are available. In addition to this, absolute pressure, turbulence (draft), light intensity (Lux), U-value (non-solar heat loss) and surface temperature can also be measured.

testo 435... four models ready for your toughest applications

The multi-function 435 is available in four versions. Depending upon the application, you can choose between models with integrated differential pressure measurement or versions with extended instrument functions such as an internal memory, PC software and an extended range of probes.

Measure a toolbox full of parameters - with **only one instrument!**

You save time, money and energy as well!

Offers both advanced design and performance!

Wireless probes...a testo exclusive!

The extensive selection of probes is truly unbeatable: optional wireless probes or conventional probes with cable connection. Cover all necessary parameters in air conditioning technology: airflow and volume, humidity, temperature, diff.pressure, absolute (barometric) pressure, Lux (light), and CO₂. Over 50 years of testo's probe design experience and expertise, plus proven testo performance and value..

More information on the internet:
www.testo.us/airflow



testo 435 – the go-to instrument for all those important measurements in air flow and ventilation

1. Duct measurements

Flow velocity probes for duct measurements are rugged and telescopic, making them very convenient for use even in large air ducts. If desired, airflow, air temperature and air humidity can be simultaneously measured with the handy 3-function probe.

Depending on your application, you can choose between a thermal probe, a vane probe or a Pitot tube for flow velocity measurement.

Find suggested instrument selections for duct measurements on page 6.



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The 435 offers you all three flow measurement modes in one convenient instrument.



2. Differential pressure measurement

Does a fan filter unit need to be adjusted or replaced? Are pressure conditions between adjacent rooms properly adjusted according to specs?

Simply connect the silicon hoses to the 435's corresponding connections, and immediately view the differential pressure between 0 to 10 in. w.c (0 and 25 hPa). Find suggested instrument selections for differential pressure measurement on page 6.

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Due to the integrated differential pressure sensors in the multifunction 435-3 and 453-4 instruments no additional probes are needed. For you that means less equipment, not additional accessories or costs.

3. Supply outlet measurements

Simply insert the 4"ø (100 mm) vane probe into the funnel, and the 435 easily and automatically displays the volume flow of the supply outlet. The funnel factor is already programmed into the instrument.

Now you can easily and quickly set the air delivery over several outlets.

See suggested instrument selections for supply outlet measurements on page 6.



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Independently calculate the flow volume and flow velocity, quickly and conveniently.



You only need one measuring instrument for...

4. IAQ and comfort measurements

Whether for a fast measurement of indoor ambient conditions such as CO₂, room humidity, room temperature and absolute pressure, or for a detailed and standards-verifying measure of comfort level (draft), measure all this with one instrument. It can even measure light intensity (lux), important to worker comfort health and safety.

By combining CO₂, %RH, °F/°C, absolute pressure, as well as a degree of turbulence probe and a Lux probe you can measure the comfort factors of any area. See page 6 for more suggestions.



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Easily add IAQ and comfort level measurements to your routine airflow and HVAC measurements anytime.

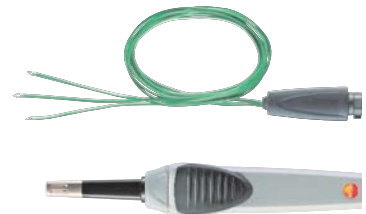


5. U-value (heat loss) measurements

in the energy evaluation of a building, you also need to measure the heat conductivity of the walls.

Simply attach the U-value probe's 3 leads to the inner wall, (as shown left), and position the **WIRELESS** probe on an outside wall. With the help of the integrated air temperature probe, the 435 will automatically calculate the U-value.

See page 6 for more U-value instrument suggestions .



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The 435 helps with difficult measurements as it calculates the U-value independent of the wall structure.



Illustration may differ from actual kit

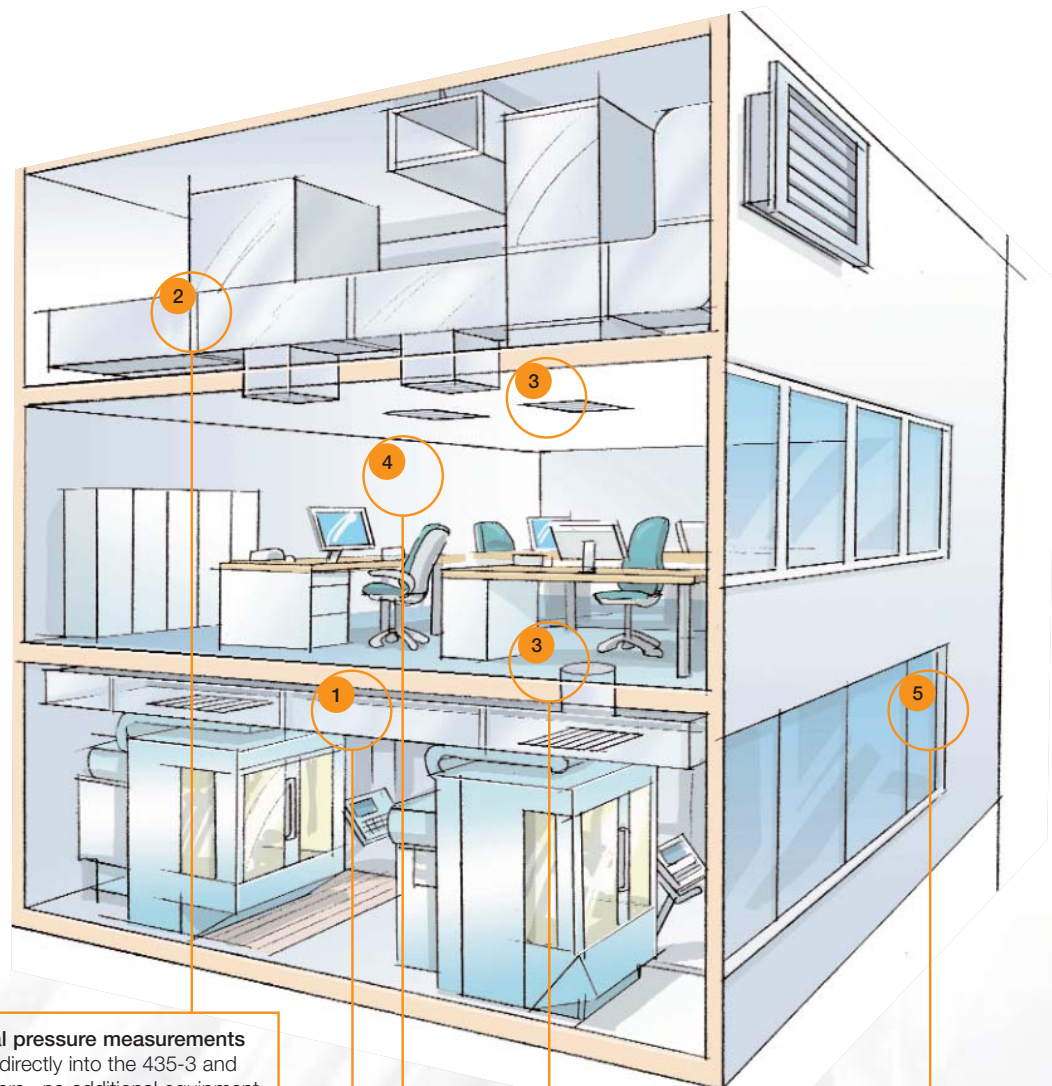
435 Multifunction instrument - simply plug in the probe, turn it on, and start measuring

- Instrument memory for up to 10,000 readings
- ComSoft PC software for analyzing, archiving and documenting the readings
- Integrated differential pressure probe (435-3 and 435-4)
- Flow velocity, temperature and humidity probes
- **Wireless probes for temperature and humidity** (lets you be in 3 places at the same time)
- IAQ, Lux and comfort probes

More information on the internet:
www.testo.us/airflow

The 435 Multifunction instrument that covers inside and outside

- air balancing analysis
- air flow traverses in ducts
- VAC system performance testing
- IAQ diagnostics
- U-value determinations



2. Differential pressure measurements
integrated directly into the 435-3 and 435-4 meters...no additional equipment or accessories needed

1. Duct measurement
use all (3) modes of airflow measurement: pitot tube, hot wire, rotating vane

4. Comfort measurement
check comfort levels against accepted standards, and handle temperature complaints quickly

3. Supply outlet measurements
measures both flow velocity and volume quickly and accurately

5. U-value measurement
determine non-solar heat loss quickly and reliably



For ordering fill in and fax to: 862-354-5020



Quantity	Please send me FREE literature:	
	Brochure "Multifunction Measuring Instruments"	0981 7054
	Brochure "Measurement Engineering for Air Conditioning and Ventilation"	0981 0284
	Brochure "Measuring Instruments for Velocity"	0981 7074
	Brochure "Measuring Instruments for Indoor Air Quality, Light and Sound"	0981 7064
	Field Guide "Ambient Air Measurement for Practical Users"	0981 0454

Quantity	Please send me:		Order no.
1	model 435 for duct measurement (suggestion 1)		
	435-1 multifunction meter		0560 4351
	30 function Thermal flow velocity probe with integrated temperature and humidity measurement		0635 1535
	Service case for meter, probes and accessories		0516 0435
1	model 435 for duct measurement (suggestion 2)		
	435-4 multifunction meter with integrated differential pressure, memory, PC software and USB cable		0563 4354
	5/8" (16mm) vane probe with telescope		0635 9535
	Service case for meter, probes and accessories		0516 0435
2	model 435 for differential pressure measurement (suggestion 1)		
	435-3 multifunction meter with integrated differential pressure measurement		0560 4353
2	model 435 for differential pressure measurement (suggestion 2)		
	435-4 multifunction meter with integrated differential pressure, memory, PC software and USB cable		0563 4354
3	model 435 for outlet measurement		
	435-1 multifunction meter		0566 4351
	Vane measurement probe, diameter 4 in., (100 mm)		0635 9435
	Funnel set (2 funnels) (ø 8 in., 200 mm; 330 x 330 mm)		0563 4170
	Service case for meters, probes and accessories		0516 0435
4	model 435 for comfort measurement (suggestion 1)		
	435-2 multifunction meter with memory, PC software and USB cable		0563 4352
	IAQ probe (CO ₂ , room temperature, room humidity, absolute pressure)		0632 1535
	Service case for meter, probes and accessories		0516 0435
4	model 435 for comfort measurement (suggestion 2)		
	435-4 multifunction meter with integrated differential pressure, memory, PC software and USB cable		0563 4354
	Comfort probe (turbulence degree measurement) with stand and telescope		0628 0109
	Lux probe		0635 0545
	Service case for meter, probes and accessories		0516 0435
5	model 435 for U-value measurement		
	435-2 multifunction meter, with memory, PC software and USB cable		0563 4352
	Temperature probe for U-value measurement incl. attachment putty		0614 1635
	Wireless module		0554 0190
	Wireless handle for temperature-humidity probes incl. TC adapter		0554 0191
	Temperature humidity probe plug-in head 2%RH		0636 9736
	Service case for meter and probes		0516 0035

Subject to change without notice.

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