

testo 435 - The new all-rounder

The all-rounder

testo 435 is the new multi-function measuring instrument which analyses Indoor Air Quality to tune air conditioning systems. The new IAQ probe measures Indoor Air Quality using the parameters CO₂, % relative humidity and ambient air temperature. Absolute pressure is also available. The degree of turbulence probe is used to achieve an objective assessment of ambient air flow. The new Lux probe measures light conditions in the workplace and the repetition frequency of monitors. The surface probe and air moisture probe are used to show where dewpoint has been exceeded and mould has developed. The heat transfer coefficient (U-value) is measured using the U-value temperature

probe and a radio probe. Temperature and humidity measurement are built-in in the new thermal probe. In this way, flow speed, volume flow, air humidity and air temperature can be measured in one procedure. Different measurement principles (hot wire, vane and Pitot tube measurement) can be used depending on flow speed and application.

Improved user comfort thanks to user profiles

testo 435 is easy to operate. User profiles for typical applications such as duct measurement and IAQ measurement are stored in the instrument making time-consuming programming in the instrument no longer necessary.

Reliable measurement data

documentation

Measurement logs provide the customer with data from duct, long-term and degree of turbulence measurements. The company logo can be included on the form. Readings can be printed cyclically in testo 435-1 and -3 on your Testo printer.

Radio probes for temperature and humidity

You have the option of transmitting readings wirelessly via radio from the probe to measuring instrument over a distance of up to 20 m (without obstructions). The lack of cable means more convenience and it cannot get dirty or damaged.

The right instrument for every application

The new testo 435 is available in four versions. Depending on the application, you can choose from versions with built-in differential pressure measurement as well as versions with additional instrument functions such as instrument memory, PC software and an extended range of probes.

Common product advantages: testo 435

- **Wide selection of probes:**
 - IAQ probe for assessing ambient air quality based on CO₂, air temperature, ambient air moisture and absolute pressure
 - Thermal probes with built-in temperature and air moisture measurement
 - Vane and hot wire probes
 - Radio probes for temperature
- **Easy operation with user profiles**
- **Printout on Testo printer**

Additional benefits of the versions

- **Built-in differential pressure measurement (435-3/-4, cannot be upgraded)**
 - for flow measurement using Pitot tubes
 - for monitoring filters
- **Extended instrument functions (435-2/-4, cannot be upgraded)**
 - Instrument store for 10,000 readings
 - PC software for analysing, filing and documenting measurement data
 - Radio probe also for humidity
 - Lux probe connection possible
 - Comfort level probe connection possible
 - U-value probe connection possible

testo 435-1	testo 435-2	testo 435-3	testo 435-4
		● Built-in differential pressure measurement	● Built-in differential pressure measurement
	● Extended instrument functions		● Extended instrument functions
testo 435-1, multi-functional meas. instr., for A/C, ventilation and Indoor Air Quality, with battery and calibration protocol	testo 435-2, multi-functional measuring instrument for A/C, ventilation and Indoor Air Quality with readings memory, PC software and USB data transmission cable, incl. battery and calibration protocol	testo 435-3, multi-functional measuring instrument with built-in differential pressure measurement for air conditioning, ventilation and Indoor Air Quality, with battery and calibration protocol	testo 435-4, multi-functional meas. instr. with built-in differential pressure measurement for A/C, ventilation and Indoor Air Quality with readings memory, PC software and USB data transmission cable, with battery and calibration protocol
Part no. 0560 4351	Part no. 0563 4352	Part no. 0560 4353	Part no. 0563 4354

Technical data	435-1/-2/-3/-4	435-3/-4	435-2/-4	435-1/-2/-3/-4
Probe type	NTC	Type K (NiCr-Ni)	Differential pressure probe, internal	Lux
Meas. range	-50 to +150 °C	-200 to +1370 °C	0 to +25 hPa	0 to +100000 Lux
Accuracy ±1 digit	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (-50 to -25.1 °C) ±0.4 °C (+75 to +99.9 °C) ±0.5% of mv (remaining range)	±0.3 °C (-60 to +60 °C) ±(0.2 °C +0.3% of mv) (remaining range)	±0.02 hPa (0 to +2 hPa) 1% of mv (remaining range)	See probe data
Resolution	0.1 °C	0.1 °C	0.01 hPa	1 Lux / 0.1 Hz
Overload			200 hPa	
				Oper. temp. -20 to +50 °C Storage temp. -30 to +70 °C Battery life 200 h (typical vane measurement) Dimensions 225 x 74 x 46 mm

Technical data for thermal, vane and IAQ probes see probe data (next page)