

Velocity measuring instruments testo 435

Testo 435, is a measuring instrument for ambient air conditions, for assessment of indoor air quality and for adjusting and testing VAC systems.

It stands out on account of its efficient measurement process, incl. PC documentation. Probe-controlled menus and selectable user profiles, e.g. for duct measurement or long-term measurement, ensure the user-friendliest operation possible.

The new IAQ probe measures Indoor air quality by measuring the CO₂ level, air moisture and air temperature. In addition, the lux probe and comfort level probe can be connected to assess draught air. Clear analysis and archiving ensure practical PC documentation. Temperature and humidity measurement is integrated in the new thermal probe. The special flow protocol professionally documents duct measurements, also with option for including your company logo.

It is also possible to connect additional temperature and humidity probes, e.g. for exact measurement of surface temperature.

Readings from up to 3 temperature or humidity probes can be clearly displayed in the measuring instrument; data transmission is by radio, i.e. wireless

- Instrument memory for 10.000 readings
- ComSoft 3 software for analysis, archiving and documenting data
- IAQ probe, lux probe and comfort level probe
- Vane measurement and thermal probes
- Radio probes for temperature and humidity
- Protection class IP54

Technical Data:

Case:	ABS/TPE/metal
Dimensions:	220 x 74 x 46 mm (435-2) 225 x 74 x 46 mm (435-4)
Weight:	450 g
Battery type:	alkaline-manganese, mignon, type AA
Battery life:	200 h (typical vane measurement)
Operating temperature:	-20 to +50°C
Storage temperature:	-30 to +70°C
Warranty:	2 years

Probe type:	Measuring range	Accuracy	Resolution
NTC	-50 – +150°C	±0.2°C (-25 – +74.9°C) ±0.4°C (-50 – -25.1°C) ±0.4°C (+75 – +99.9°C) ±0.5 of mv (remaining range)	0.1°C
Type K (NiCr-Ni)	-200 – +1370°C	±0.3°C (-60 – +60°C) ±0.5 of mv (remaining range)	0.1°C
Humidity sensor capacitive	0 – +100%rF	±2% rF (+2 bis +95% RH)	0.1% RH
Vane	0 – +60 m/s	±0.1 m/s +1.5% of mv (60-) ±0.2 m/s +1.5% of mv (16-)	0.01 m/s (60-) 0.1 m/s (16-)
Hot wire	0 – +20 m/s	±(0.03 m/s +5% of mv)	0.01 m/s
Absolute pressure probe	0 – +2000 hPa	±5 hPa	0.1 hPa
CO₂ (IAQ probe)	0 – +10000 ppm CO ₂	±50 ppm CO ₂ ±2% of mv (0 – +5000 ppm CO ₂) ±100 ppm CO ₂ ±3% of mv (+5001 – +10000 ppm CO ₂)	1 ppm CO ₂
Lux	0 – +100000 Lux	acc. to DIN 5032	1 Lux
Differential pressure sensor internal (435-4)	0 – +25 hPa	±0,02 hPa (0 – +2 hPa) ±1% of mv (remaining range)	0.01 hPa

Article	Order No.
① testo 435-2 multi-function measuring instrument for air conditioning, ventilation and room air quality with measured value memory, PC software and USB data transmission cable, incl. battery and calibration protocol	81 09 04352
② testo 435-4 multi-function measuring instrument with integrated differential pressure measurement for air conditioning, ventilation and room air quality. With measured value memory, PC software and USB data transmission cable, incl. battery and calibration protocol	81 09 34354



Temperature probes

Article	Order No.
Surface probe Fast-action, with sprung thermocouple strip, also for uneven surfaces, measurement range short-term to +500°C, TC type K, fixed cable Measuring range: -60 to +300°C Accuracy: Class 2 ²⁾ t ₉₉ : 3 sec	68 09 20393
③ Water-proof immersion/insertion probe, TE type K Comfort sensor for measuring turbulence with telescope (max. 820 mm) and stand, meets the requirements of DIN 1946 Part 2	68 09 21293 10 09 40109
④ IAQ sensor for assessing room air quality, for measurement of CO ₂ , humidity, temperature and absolute pressure	81 09 21535
⑤ Lux probe probe for measuring light intensity	81 09 50545
⑥ Hot wire sensor for m/s and C°, Ø probe head 7.5 mm, incl. telescope (max. 820 mm)	81 09 51025
Thermal flow sensor with built-in temperature and humidity measurement, Ø 12 mm, with telescope (max. 745 mm)	81 09 51535
⑦ Vane measurement sensor, Ø 60 mm with telescope max. 910 mm, e.g. for measurements in duct exit	81 09 59335
⑧ Vane measurement sensor, Ø 16 mm with telescope max. 890 mm, e.g. for measurements in ducts	81 09 59535
⑨ Humidity/temperature probe Ø 12 mm Absolute pressure sensor 2000 hPa in a robust metal case with jolt protection, incl. quick-action coupling (M8x0.5), magnet for fast fixing	68 09 69735 68 09 31835

Accessories for probes

Article	Order No.
testovent 410, volumetric flow measurement funnel Ø 340 mm/330 x 330 mm, incl. carry-case	81 09 40410
testovent 415, volumetric flow measurement funnel Ø 210 mm/190 x 190 mm, incl. carry-case	81 09 40415
Connecting tube, silicone, length 5 m load capacity max. 700 kPa (mbar)	81 09 40440
Pitot tube, stainless steel, length 500 mm For flow measurements, für testo 435-4	81 09 52045
Pitot tube, stainless steel, length 350 mm For flow measurements, für testo 435-4	81 09 52145
Pitot tube, stainless steel, length 1000 mm For flow measurements, für testo 435-4	81 09 52345
Monitoring and humidity balancing set 11.3%RH/75.3%RH	68 09 40660

Radio

Article	Order No.
Radio module for measuring instrument, 869.85 MHz Approval for the countries DE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR	68 09 40188
⑩ Radio handle for plug-on probe heads, incl. TE adapter Approval for the countries DE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR	68 09 40189
TE probe head for surface measurement attachable to radio handle	68 09 20394
TE probe head for air/immersion/insertion measurements can be plugged on the radio handle	68 09 20293
⑪ Humidity probe head, can be plugged on radio handle	68 09 69736

Accessories

for test 735, testo 635, testo 435

Article	Order No.
Service case for measuring instrument, probe and accessories	68 09 60135
Testo protocol printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries	68 09 40547
Spare thermal paper for printer (6 rolls) measurement data documentation with reading life of up to 10 years	68 09 40568
Plug-in power supply unit 5 VDC 500 mA with Euro plug 100–250 VAC, 50–60 Hz	81 09 40447

