

**A FEW PRACTICAL BENEFITS:**

Professional anemometers for flow rate, differential pressure and volumetric flow measurements

Suitable for high flow rates (up to 80 m/s)

Large, easily legible LCD with background illumination and dual indication of measured values

Diverse measuring functions

USB port and software for real-time measurement series recording

¼" tripod connection

Live Log function with connected PC

Supplied with calibration certificate – completely stored in a carry case



**Finally one software for basically all measuring devices:**

**MultiMeasure Studio Professional**

Along with the ever-growing number of fully compatible Trotec measuring devices this software is also suited for use with the partially compatible anemometers TA300 and TA400 – you can even benefit from this software in case of isolated devices, for it enables the analysis and administration of all measuring projects and customer data across multiple devices in a single application!

**Create professional measurement reports in next to no time!**

The unique report generating function of MultiMeasure Studio Professional already comes with completely formulated boilerplate texts for the fields of building diagnostics, moisture measurement, leak detection and thermography.

**More information can be found starting on catalogue page 48 ...**

# Anemometers TA300 and TA400

**For the precise determination of flow rate, differential pressure, volume flow and air temperature**

**Fields of application:**

- *Checking heating, ventilation or air-conditioning systems*
- *Air current control in ventilation ducts*
- *Tightness tests at doors or windows*
- *Differential pressure measurements to check the filter condition*
- *Measuring air velocity and temperature at air passages and venting slots*
- *Pressure control in isolation areas with vacuum or over-pressure conditions*

With professional anemometers from Trotec, installers, service technicians and experts have the ideal measuring device for flow rate measurements in air or gases.

A calibration certificate already included in the standard scope of delivery emphasizes the professional orientation of these precision anemometers.

Both measuring devices determine flow rate, air temperature and volumetric flow alike; the cross-sections of the measured air ducts – be they round or square – can be entered into the device in a differentiated way.



**Dynamic pressure anemometer TA400**

In contrast to the TA300 with its thermal measurement principle, the measuring technique of the TA400 is based on the determination of the dynamic pressure as the difference between stagnation pressure and static pressure.

Hence it is possible to determine very high flow rates of up to 80 m/s even in particularly rough surroundings, for the dynamic pressure probe has virtually no mechanical or dirt-sensitive sensors.

Moreover, differential pressure measurements using the TA400 admit a wider field of application e.g. for determining the filter status in air conditioning systems or measuring the gas stagnation or flow pressure in heating systems.

**Hot-wire anemometer TA300**

The combination of robust hot-wire sensor and steplessly extendable telescopic probe makes the TA300 an ideal flow meter even at distant locations or poorly accessible air outlets.

The TA300 impresses with a high spatial and temporal resolution and is particularly well suited for the precise determination even of low flow rates in all areas of air conditioning and ventilation.

*For battery-saving power supply, both anemometers can be operated directly at the USB port of your computer using the connecting cable included in the scope of delivery. When connected via USB, the device can be used for software-supported measurement series recording of real-time flow rates.*

Technical data		TA300	TA400
Article number		3.510.004.005	3.510.004.007
Probe	Type	hot wire probe	dynamic pressure probe
	Design	telescopic probe, straight	L-shaped Pitot tube
	Length	185 mm to 1,000 mm	335 mm
	∅ probe tip/base	10 mm / 12 mm	8 mm
	Hose length	–	850 mm
Air / gas pressure	Measuring range	–	0 - 5,000 Pa
	Accuracy	–	± 0.3 % at +25 °C
	Resolution	–	1 Pa
	Selectable units	–	Pa, mbar, psi, inH <sub>2</sub> O, mmH <sub>2</sub> O
Air velocity	Measuring range	0.1 - 25.0 m/s, 0.3 - 90 km/h, 20 - 4,925 ft/min, 0.2 - 55.8 mph, 0.2 - 48.5 kn	2 - 80.0 m/s, 3.6 - 288 km/h, 200 - 15,733 ft/min, 2.24 - 178.66 mph, 2 - 154.6 kn
	Accuracy	± (5 % of the measured value + 1 measuring unit)	± 2.5 % at 10 m/s
	Resolution	0.01 m/s, 0.1 km/h, 1 ft/min, 0.1 mph, 0.1 kn	0.01 m/s, 0.1 km/h, 1 ft/min, 0.1 mph, 0.1 kn
Volumetric flow	Measuring range	0 - 99,999 m <sup>3</sup> /min (CMM), 0 - 99,999 ft <sup>3</sup> /min (CFM)	0 - 99,999 m <sup>3</sup> /min (CMM), 0 - 99,999 ft <sup>3</sup> /min (CFM)
	Resolution	0.001 to 100	0.001 to 100 (CMM), 0.0001 to 100 (CFM)
Temperature	Measuring range	0 to 50 °C (32 to 122 °F)	0 to 50 °C (32 to 122 °F)
	Accuracy	± 1 °C (± 1.8 °F)	± 1 °C (± 2 °F)
	Resolution	0.1 °C (0.1 °F)	0.1 °C (0.1 °F)
Functions and features	Minimum, maximum and average value display	■	■
	Hold function	■	■
	Flow channel setting	■	■
	Live Log function via PC	■	■
	Zero adjustment function (Zero-Reset)	■	■
	Display illumination	■	■
	Automatic switch-off	■	■
	Large LCD with dual measurement value display	■	■
	Storable measured values	–	99
	USB interface	■	■
¼" tripod connection	■	■	
Further characteristics	Operating conditions	0 °C to +50 °C, < 80 % RH *	0 °C to +50 °C, < 90 % RH *
	Dimensions	210 x 75 x 50 mm	210 x 70 x 50 mm
	Weight incl. probe	450 g **	540 g **
	Power supply	9 V IEC 6LR61	9 V IEC 6LR61
Scope of delivery	Standard	measuring device with instructions, calibration certificate, battery, USB cable, software, hard-shell case	
	optional	Universal tripod (Article no. 6.300.000.200)	Universal tripod (Article no. 6.300.000.200)
	Additionally device-specific	telescopic probe	Pitot tube, 2 silicone connection hoses (length 850 mm)

\* non-condensing; \*\* incl. battery and probe

**Always to the point:  
Professional anemometers  
from Trotec**



**Hot-wire anemometer TA300**

- High spatial and temporal resolution
- Precise determination even of low flow rates
- Extendable telescopic probe
- for maximum versatility



**Dynamic pressure anemometer TA400**

- For measuring high flow rates of up to 80 m/s
- Ambient and differential pressure measurements employing a Pitot tube
- Can also be used in very rough operating conditions



The slim telescopic probe of the TA300 can be variably extended to an effective length of 1 m, thus measuring applications can be carried out with more ease. Also convenient for flow rate measurements in remote or poorly accessible locations or inside air ducts and ventilation shafts.