

Checklist
Air balancing

Be sure. **testo**



Air balancing
PRO measuring program for more
efficiency and time savings

www.testo.com

Checklist

In order to ensure efficient and healthy air circulation in modern, airtight insulated buildings, the regulation of balanced residential ventilation systems is of crucial importance.

Incorrectly adjusted systems lead to insufficient air exchange and significantly increased energy consumption.

Precise adjustment of the balanced ventilation systems prevents moisture damage and mould growth and creates a pleasant indoor climate, which protects both the health of the residents and the building fabric.

30 % faster and 100 % secure. Make the commissioning and inspection of balanced ventilation systems one of your easiest exercises: With the specially developed PRO measurement program in the testo Smart App together with the vane anemometer testo 417.

All in one:
The testo Smart App
 For maximum increase in efficiency

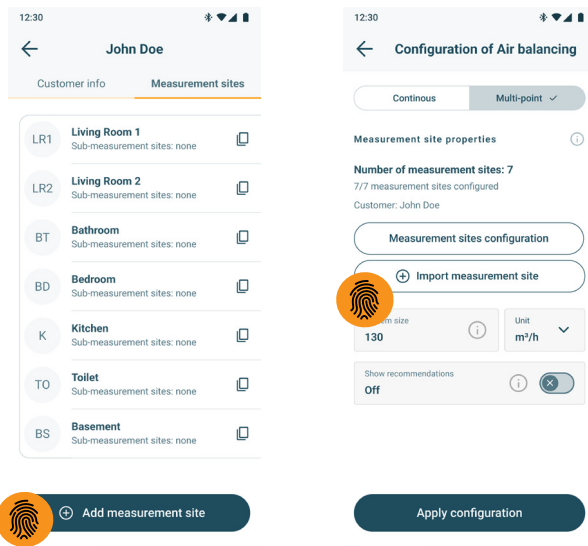


1.

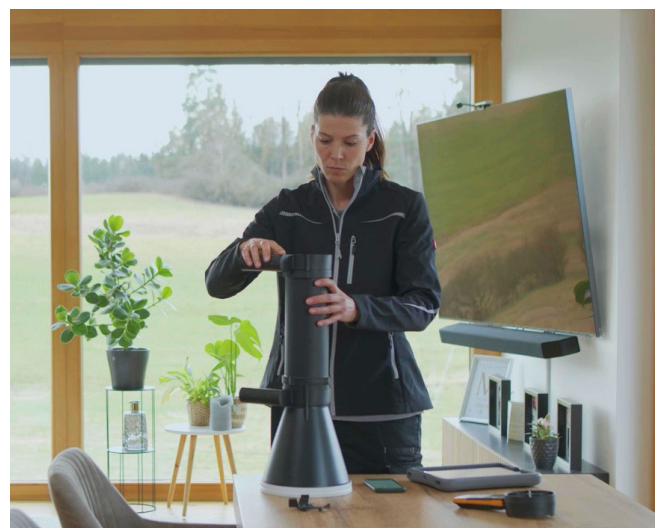
Preparation

- **Create measurement points**
 - Open the testo Smart App.
 - Create all outlets as measuring points with air type and reference volume.

- **Start a measuring program**
 - Open the PRO measuring program "Air balancing" and import the measuring points.



- **Instrument setup**
 - Place the testo 417 with flow straightener on the measurement funnel.
 - Connect the testo 417 to the app via Bluetooth.



2.

Measurement

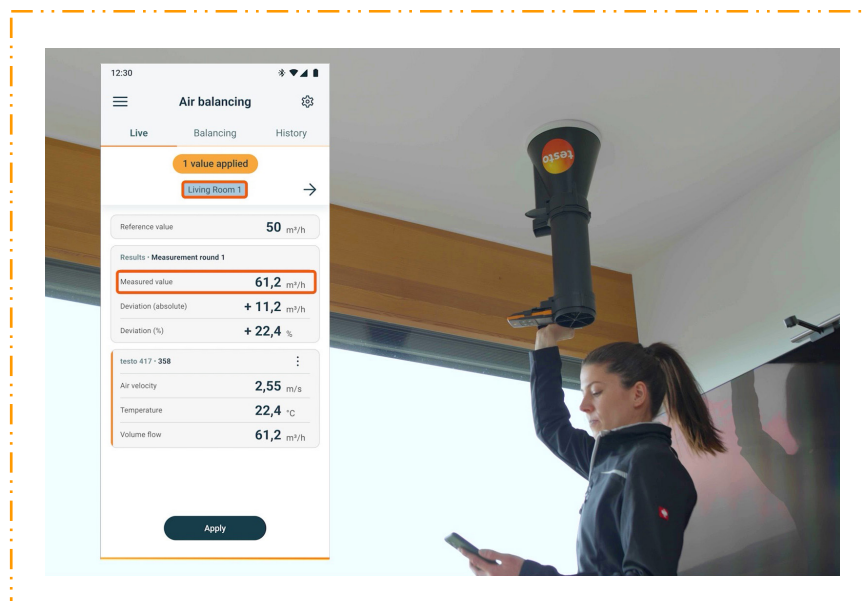
- **Preparation of the outlets**

- Make sure that all outlet valves are 100 % open at the start of the first measurement round.



- **First measurement round**

- **Position the measuring instrument:** Hold the testo 417 with the funnel over each outlet so that the air flows through the vane.
- **Record volume flow:** Systematically measure all outlets. The data are automatically transmitted to the testo Smart App.
- **Documentation:** Save the measured values in the app, which displays any deviations. For exhaust air outlets, remove the flow straightener.

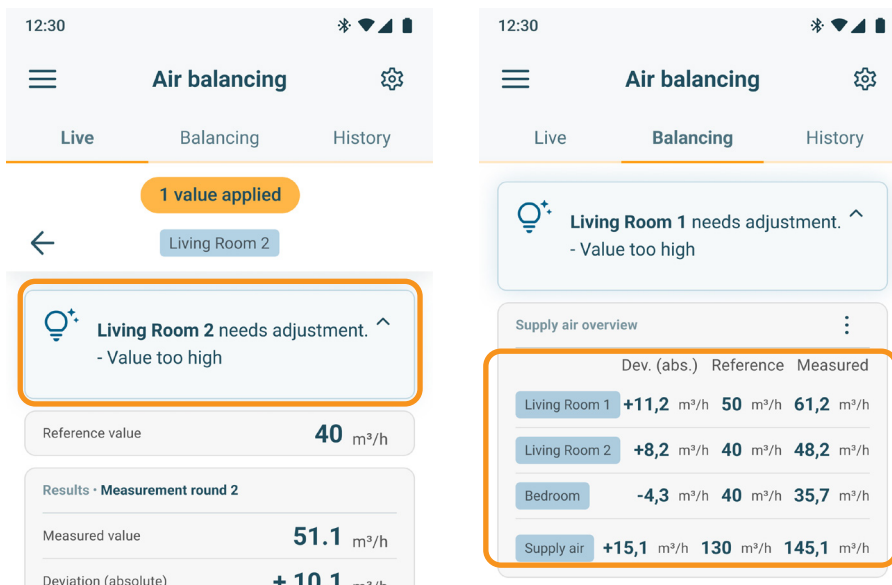


3.

Alignment

- Recommended actions**

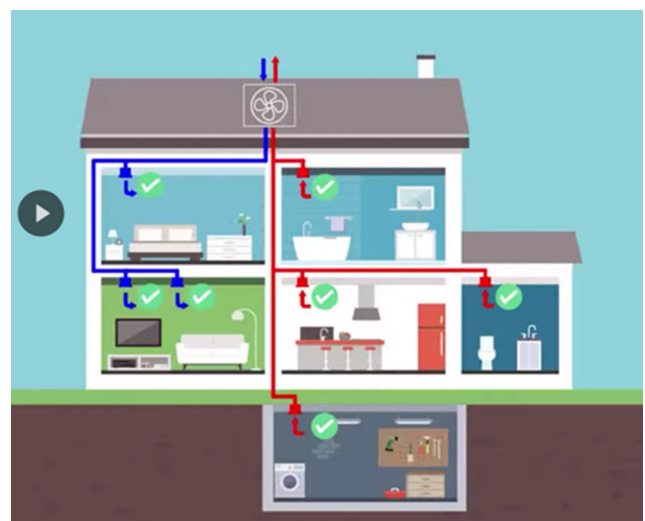
- After each measurement round, the app displays the absolute and percentage deviations and gives a specific recommendation as to which outlet should be adjusted.



4.

Further measurement rounds

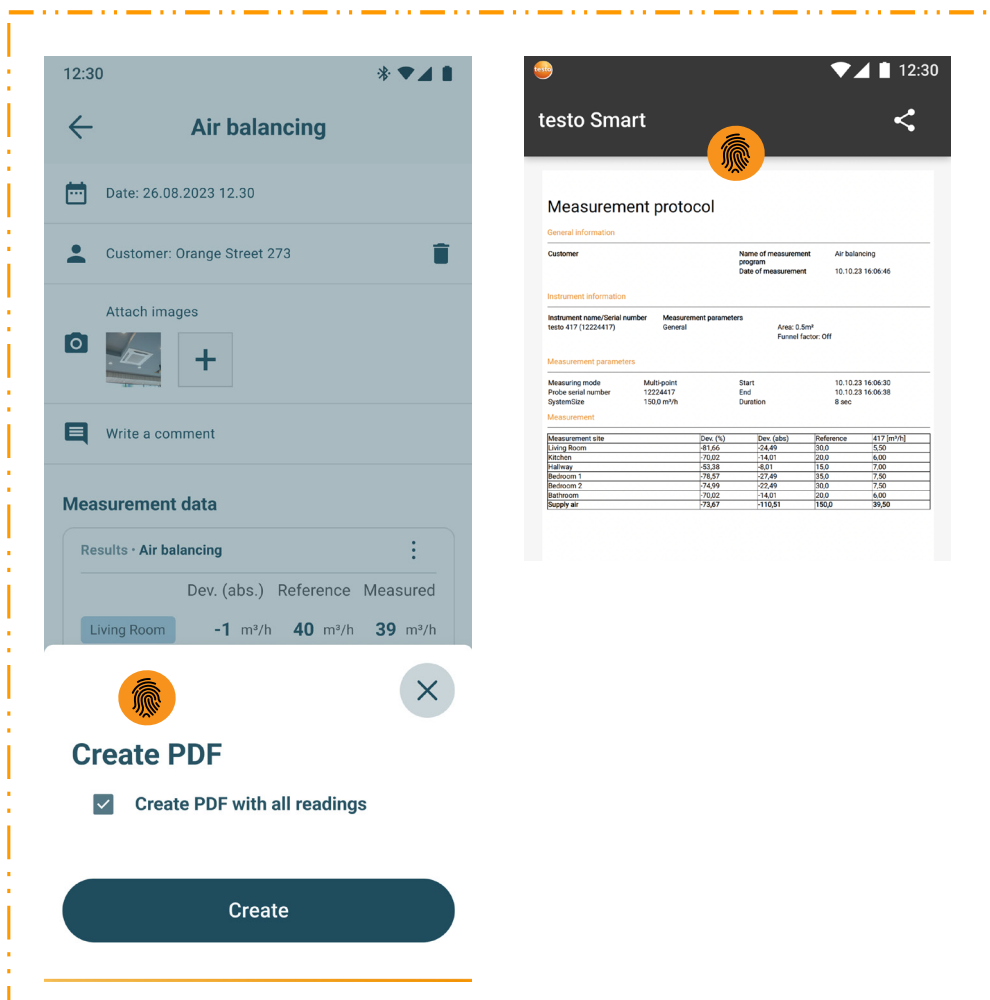
- Repeat the measurement at the outlets in further measurement rounds. The app then makes a recommendation as to which outlet should be adjusted.
- Adjustment is complete when all target volume flows have been reached.



5.

Completion of the balancing

- **Easy documentation**
 - The final measured values can be clearly summarized and saved in a measurement report.
- **Export measurement data**
 - The testo Smart App creates digital measurement reports that can be exported as PDF or CSV and sent by email.
- **Efficient App integration**
 - Intuitive operation and seamless integration optimize the entire process from measurement to documentation.



Maximum efficiency:

Experience up to 30 % time savings in the balancing of ventilation systems. Our intelligent solution automates documentation and comparison with target values so that you can work faster and more precisely.

Intelligent adaptations:

Let our app guide you through the entire process. It calculates all relevant values and gives you clear recommendations for necessary system adjustments – for perfectly balanced ventilation systems.

Multifunctional application:

The testo Smart App is your central platform to significantly increase your efficiency and optimize your work processes.

Seamless integration

Our app is compatible with all Bluetooth-enabled Testo measuring instruments. Whether you are working with the testo 417 vane anemometer or the testo 420 volume flow measuring hood, the app offers a smooth connection and precise measurements.



User-friendliness redefined:

Intuitive measurement menus and a graphically clear display of the measured values make operation child's play. All data is available at a glance, which makes interpretation and further processing much easier.

Immediate results:

Don't waste any more time with manual documentation. Send reports directly by e-mail and always have all relevant information to hand.

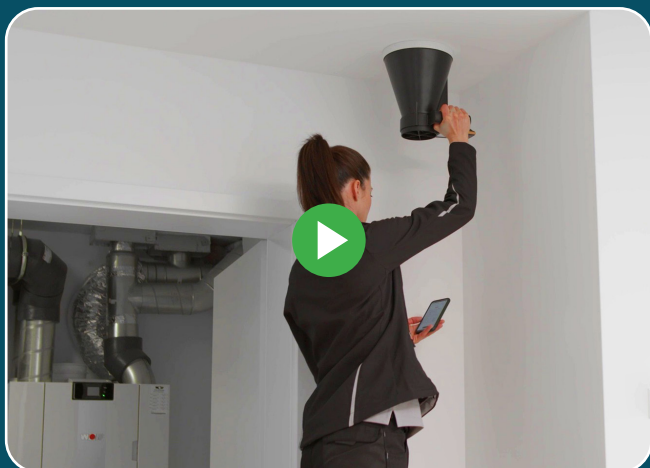


testo 417 kit 2
Vane anemometer with measuring funnels and flow straightener

The testo 417 kit 2 is your perfect partner for precise measurements in air conditioning and ventilation technology. Equipped with a 100 mm vane, it delivers fast and accurate results directly on the display. The innovative testo Smart App transforms your smartphone into a practical second display and makes it easier to configure and document the measurement values. With two measuring funnels and a volume flow straightener, the kit guarantees maximum accuracy, even with demanding swirl diffusers. Ideal for anyone who appreciates efficiency and precision!

Save up to 30 % time and costs

In the adjustment of balanced ventilation systems thanks to the intuitive PRO measuring program



Detailed air balancing application video:

Take a look right now!



PRO measurement programs

for a sustainable increase in efficiency



All in one: The testo Smart App



The testo Smart App guides you quickly and easily through measurements on refrigeration, air conditioning and heating systems

Install it now:

