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smart *pft* body

The bodyplethysmograph is still the **gold standard device for lung function testing**, especially for patients with obstructive lung disease.

The resistance measurement **does not require patient collaboration**, and the test signals displayed on a screen are visually clear as an average over all airway generations. Displaying all recorded test signals also gives significant information about the quality of the test results.

Only the TGV test within a bodyplethysmograph allows the volume **measurement of very bad**

ventilated lung areas and trapped air to calculate physically correct severe hyperinflation.

Our smart pft body has oval-shaped transparent walls that give the impression of a **panorama scenery** to avoid claustrophobia. The **two-door opening allows easy access** to the bodyplethysmograph for patients with poor mobility.

The design and quality of the smart pft body reflect our more than **30 years of experience** in producing bodyplethysmography equipment.

Test programs

Spirometry

VC, IC, TV, IRV, ERV ...

Dynamic lung volumes

FEV1, MEF25-75, PEF, FVC ...

Resistance (RAW)

RAW, sRAW, GAW ...

Thoracic gas volume (TGV)

TGV, RV, TLC ...





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Available measurement options

CO diffusion

Respiratory drive (P0.1/MIP/MEP)

Airway resistance (ROCC)

Rhinomanometry

Compliance

Challenge testing

Respiratory measurement

Sensor type smartV Pneumotachograph

Flow resistance < 0.13 kPa/l*s @ 14 l/s

Parameter	Measuring range	Accuracy
Flow	up to 14 l/s	< 3%
Box pressure	up to 2.5 mBar	< 0.0003 mBar
Mouth pressure	up to 200 mBar	< 0.0244 mBar

Bodybox

Interface USB 2.0

Box volume 925 l

Ambient measurement

Parameter	Measuring range	Accuracy
Pressure	500 mBar - 1150 mBar	± 10 mBar
Temperature	- 40 °C to + 125 °C	± 0.2 °C
Humidity	0 % - 100 % RH	± 1.8 % RH

