

## Broncho-Provocations for inhalational provocation tests

### ProvoX – just perfect!

Performing inhalational provocation tests extra-ordinarily quick and with reproducible results – with the **ProvoX**, GANSHORN developed an aerosol dosimeter that meets these requirements – measurement lab independently. The threshold controlled, breath-synchronous application of the preset aerosol dose during the inspiration phase guarantees outstanding reproducible results.

### Make your choice!

- Create your own multiple stage tests in matter of seconds via our easy-to-use software
- The most common used protocols (e.g. ATS, DGP) are installed. Store an unlimited amount of protocols with up to 14 stages each.
- The dose per stage can alternatively be changed by either increasing the provocation fluid concentration and/or by changing the total atomizing time
- In many cases the setting of the atomizing time allows the usage of only one single aerosol concentration – this saves time and money!

### Stay on top!

Due to the perfect user guidance and simple handling of the **ProvoX**, you can ease the daily work of your staff. The well-structured display of the **ProvoX** continuously provides precise information on the status of the examination.

The backside-ventilated special valve located directly at the atomizer and the large compressed air tank guarantee an optimal droplet size, which remains constant over the entire bolus time.



## How does a provocation test proceed with the ProvoX?

After exceeding the set threshold, the **ProvoX** starts atomizing the respective provocation substance.

Due to the atomizing action only during the inspiration phase (the so-called »Bolus-Method«), the aerosol reaches the respiratory tracts particularly deeply.

Breath by breath the **ProvoX** monitors the desired total dose and adapts the atomizing time to short breathing cycles.

The total atomized quantity per stage and provocation series is automatically calculated.

Only a minimal quantity of aerosol is exhaled, which is nearly completely retained by a highly effective filter. Practically no contamination of the room air exists.

The powerful compressor with a three-liter compressed air tank guarantees a stable atomizing pressure and a low noise level (operating time of only approx. 1-3 minutes per day).

Due to its well-developed construction, all components of the **ProvoX** which can be contaminated are single-patient use and can be replaced. This saves time and makes the ProvoX the only device in the market with a perfect hygienic solution, thus assuring highest safety for the patients.



## TECHNICAL SPECIFICATIONS

Power supply: .....	24V DC
Power consumption: .....	6W
Communication: .....	Bluetooth 4.0 (LowEnergy)
Dimensions incl. atomizer: .....	100mm x 190mm x 190mm (W x H x D)
Dimensions without atomizer: .....	100mm x 100mm x 80mm (W x H x D)
Required pressure: .....	2 bar
Required flow: .....	4,5 l/min
Nebuliser performance: .....	0,436 ml/min (0,438 mg/min --> 7,31 mg/s)
Particle size: .....	1-5 µm

