



## Infection-free Spirometer

# SPM300

### Infection-free patented sensing method

Differed from existing pneumotachometer or turbine method, it utilizes newly patented sensing method (SmarTube™) based on Bernoulli's Law. Because it doesn't use filter, screen or turbine, which cause air friction or inertia problem, it achieved great accuracy reducing measurement error ratio remarkably.

#### No cleaning

Using disposable mouthpiece, both of patients and doctors do not need to worry about cross infection risk. Furthermore there are no cleaning or sterilization requirements.

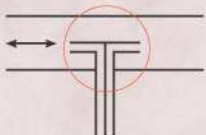
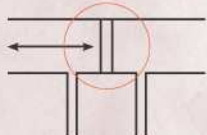

#### Easy-to-use touch screen

Operation is very simple. When an adjustment or test need to be made, just touch the parameter or menu on the screen. You can monitor the proceeding status and then print the best result, which is selected automatically after calculation.

#### Breathing protocol

- FVC (Forced Vital Capacity)
- SVC (Slow Vital Capacity)
- MVV (Maximum Voluntary Ventilation)



	Bernoulli's Law	Pneumotachometer	Turbine
structure			
medium	SmarTube™	screen	Propeller or turbine
accuracy	error ratio < 1% (equal air density)	error ratio < 5% (air friction)	error ratio < 20% (inertia problem)
	User-friendly Infection-free	High probability of infection because of remain saliva or bacteria.	High probability of infection because of remain saliva or bacteria and low accuracy.

## SPECIFICATIONS

Dimensions	Main Body : 296(W) × 305.5(H) × 92.5(D)mm, Approx. 3.5Kg Spiro Handle : 47(W) × 200(H) × 34(D)mm, Approx. 250g
Measuring Values	FVC : FVC, FEV 1.0, FIVC, FEV 1.0, FEF25 ~ 27 a, FEF 200-1200ml, FEF 50%, FIF 50%, PIF, FET 100% SVC: SVC, ERV, IRV, TV MVV: MVV, RR, TV
Presentation	Flow volume loop Flow time plot Measurement values table
Measuring Range	Flow: 0 to ± 12 L/s Volume: 0 to ± 11 L
Measuring Method	Differential pressure method
Prediction Equation	Morris-Polgar
Sample Rate	200 samples/sec.
Flow Impedance	<0.2 mbar s/L at 12 L/s
Measuring Accuracy	Complies with ATS(the American Thoracic Society)
Ambient Temperature	15 to 40°C (59 to 104°F)
Relative Humidity	10 to 90% (non-condensing)
Atmospheric Pressure	700 to 1060 hPa.
Standard Accessory	Disposable mouthpiece 100ea. Operation manual 1ea, Nose clip 1ea, Adapter 2ea.



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