

# venTest™

## Ventilator Test System

venTest™ is designed to accurately test the performance of Ventilators and Anaesthetic systems. With a small footprint, data analysis and waveforms are generated on-board and displayed on its 7" touch screen display – no need to carry around a laptop.



### Features:

- 7" capacitive widescreen display with LED backlight
- Intuitive graphical operating interface for measuring devices
- FlowSense bidirectional airflow sensor ( $\pm 300$  L/min or  $\pm 12$  L/min)
- Automatic flow sensor detection
- 2 measured curves displayed simultaneously
- 11 numeric parameters displayed, freely configurable
- Option: oxygen measurement
- Option: anesthetic gas measurement, IRMA AX+
- User configurable test setups
- SD card or USB external memory
- Wireless, Ethernet, and PC network connectivity
- Report formatting and printing
- High Frequency Ventilation testing
- Data logging

Innovation by design

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## venTest – Performance Specifications

### Main Functions

#### Ventilation Testing

Bidirectional flow sensors in 2 measuring ranges for tidal volume, minute volume, peak flow, time measurement (TI, TE, I:E, frequency), ventilation pressure measurement, differential pressure in 3 ranges, and humidity

**Options:**

- 10 Bar Pressure Extension
- O<sub>2</sub> Measurement
- Multi-Gas Sensor (CO<sub>2</sub>, N<sub>2</sub>O, plus anesthetic agents)

### Measuring Ranges & Accuracy

Parameter	Range	Accuracy
ventilation pressure sensor	0 - 10 kPa	± 1 % or 0.02 kPa
FlowSense high flow sensor	± 300 L/min	± 2 % or 0.1 L/min
FlowSense low flow sensor	± 12 L/min	± 2 % or 0.01 L/min
differential pressure	± 20 mbar	± 2 kPa ± 0.5 % or ± 0.002 kPa
differential pressure	± 200 mbar	± 20 kPa ± 0.5 % or ± 0.02 kPa
differential pressure	± 1 bar ± 100 kPa	± 0.5 % or ± 0.1 kPa
ambient pressure	60 - 115 kPa	± 1 % or ± 0.5 kPa
temperature	10 - 40 °C	± 1 °C
humidity	0 - 100 % R.H.	± 3 % R.H.
Breath Rate (frequency)	1 - 100 BrPM 101 - 200 BrPM	± 0.1 BrPM ± 0.2 BrPM
high pressure (option)	0 - 1 Mpa (0 - 10 bar)	± 1.5 % or ± 1 kPa
O <sub>2</sub> -concentration (option)	0 - 100 %	± 1 Vol %
Multi-Gas Sensor (option):		
CO <sub>2</sub>	0 - 10 Vol % 10 - 15 Vol %	± 0.2 Vol% + 2% of reading ± 0.3 Vol% + 2% of reading
N <sub>2</sub> O	0 - 100 Vol %	± 2 Vol% + 2% of reading
HAL, ISO, ENF	0 - 8 Vol %	± 0.15 Vol% + 5% of reading
SEV	0 - 10 Vol %	± 0.15 Vol% + 5% of reading
DES	0 - 22 Vol %	± 0.15 Vol% + 5% of reading

### General

<b>Display</b>	Colour capacitive widescreen touch 7" TFT-LCD On screen colour graphical waveforms
<b>Dimensions</b>	210 x 140 x 80 mm (W x D x H)
<b>Weight</b>	Approx. 1.4 kg
<b>Power Supply</b>	
Voltage	100 - 240 V, 50/60 Hz, 900 mA, DC 12 V, 3 A
Battery	Li-ion 7.4V / 6.5 Ah approx. 8 hours battery operation
<b>Temperature Range</b>	
Operation	10 - 40 °C
Storage	-20 to 70 °C

All specifications subject to change without notice.



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