CITREX H5

Technical specification

analyser
the art of measuring

The ideal all-in-one testing device for biomedical engineers, independent service organisations, anaesthesia device and ventilator manufacturers.

CITREX H5 is the gas flow and pressure measurement instrument with the most advanced user interface. It's portable, accurate and enables users to individually configure their measuring screens.

The new CITREX H5 is designed to meet a wide variety of day-to-day applications. Its precise and highly reliable capabilities allow it to analyse the performance of different medical devices such as ventilators and anaesthesia machines or oxygen flow meters, pressure gauges and suction devices.

Features:

- Big 4.3" multi-touch display with 800 × 480 pixels
- Intuitive graphical user interface
- Extended profile capabilities
- Flow and pressure trigger settings
- Up to 17 gas standards and up to 26 respiratory parameters
- On-screen measurement, realtime parameter reading
- Statistics evaluations

« The ideal all-in-one mobile testing device for all ventilators. »

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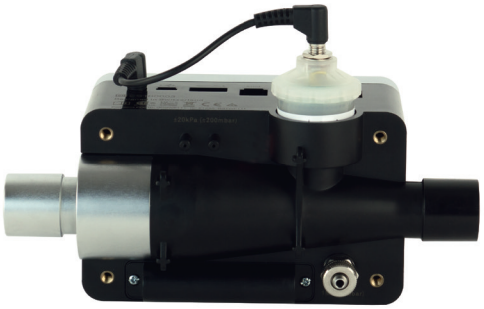
Flow and pressure measurements		
Flow	Flow	± 300 sL/min*** ± 1.9 %* or ± 0.1 L/min**
Measuring direction bidirectional		Yes
Temperature compensated		Automatic
Pressure compensated		Automatic
Humidity compensated		Manually
Pressure		
High	P_{High}	0..10 bar ± 1 %* or ± 10 mbar**
Differential	P_{Diff}	± 200 mbar ± 0.75 %* or ± 0.1 mbar**
Flow channel	$P_{Channel}$	-50..150 mbar ± 0.75 %* or ± 0.1 mbar**
Atmospheric pressure	P_{Atmo}	500..1150 mbar
Units		
Flow		L/min, L/s, cfm, mL/min, mL/s
Pressure		bar, mbar, cmH_2O, Torr, inHg, hPa, kPa, mmHg, PSI
Other measurement		
Oxygen (pressure comp. ≤ 150 mbar)	O_2	0..100 % ± 1 % O_2**
Gas temperature	Temp.	0..50 °C ± 1.75 %* or ± 0.5 °C**
Gas types		Air, Air/O_2, O_2, N_2O, N_2O/O_2, CO_2, N_2, Heliox (21% O_2)
Gas standards		ATP, ATPD, ATPS, AP21, STP, STPH, BTPS, BTPS-A, BTPD, BTPD-A, 0/1013, 20/981, 15/1013, 25/991, 20/1013, NTPD, NTPS
Ventilation parameter		
Breath rate	Rate	1..1000 AZ/min ± 1 AZ/min* or ± 2.5 %**
Time	T_i, T_e	0.05..60 s ± 0.02 s
Ratio	I:E	1:300 .. 300:1 ± 2.5 %*
	T_i/T_{cyc}	0..100 % ±5 %*
Volume	V	±2 %* or ±0.20 mL (>6 sL/min)**
Tidal Volume	Vti, Vte	± 10 L ±2 %* or ±0.20 mL (>6 sL/min)**
Minute volume	Vi, Ve	0..300 sL/min ±2.5 %*
Peak flow	PF_{Insp}, PF_{Exp}	±300 sL/min ±1.9 %* or ±0.1 sL/min**
Pressure	P_{Peak}, P_{Mean}, PEEP, $P_{Plateau}$, IPAP	0..150 mbar ±0.75 %* or ±0.1 mbar**
Compliance	C_{Stat}	0..1000 mL/mbar ±3 %* or ±1 mL/mbar**
General information		
Realtime curves		Yes
Display		4.3" Multi-Touch (color)
Interface		RS-232, USB, Ethernet, CAN, Analog Out, TTL, WLAN
Data storage		Internal and Micro SD Memory Card
Power		100..240 VAC, 50..60 Hz
Dimension (w × d × h)		11.4 × 7 × 7.3 cm
Weight		0.52 kg
Battery		5 hours
Approvals		CE, CSA (Canada and USA)



The greater tolerance is valid: * Tolerance related to the measured value, ** Absolute tolerance,
*** The unit sL/min is based on ambient conditions of 0 °C and 1013.25 mbar (DIN 1343).

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