

Technical Specifications

CITREX H4

analyser
the art of measuring



Flow and Pressure Measurements		Range	Accuracy
Flow		± 300 sL/min***	Air: $\pm 1.9\%$ * or ± 0.1 sL/min**
Temperature compensated		yes	
Pressure compensated		yes	
Pressure			
High		0–10 bar	$\pm 1\%$ * or ± 10 mbar**
Differential		± 200 mbar	$\pm 0.75\%$ * or ± 0.1 mbar**
Flow channel		- 50–150 mbar	$\pm 0.75\%$ * or ± 0.1 mbar**
Units			
Flow		L/min, L/s, cfm, mL/min, mL/s	
Pressure		bar, mbar, cmH ₂ O, inH ₂ O, Torr, inHg, hPa, kPa, mmHg, PSI	
Other Measurements		Range	Accuracy
Oxygen, pressure compensated		0–100 %	$\pm 1\%$ O ₂ **
Gas temperature		0–50 °C	$\pm 1.75\%$ * or ± 0.5 °C**
Gas types		Air, Air/O ₂ , N ₂ O/O ₂ , Heliox (21% O ₂), N ₂ , CO 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 Parameters		Range	Accuracy
Breath rate		1–1000 bpm	± 1 bpm or $\pm 2.5\%$ **
Time	Ti, Te	0.05–60 s	± 0.02 s
Ratio	I:E	1:300–300:1	$\pm 2.5\%$ *
	Ti/Ttotal	0–100 %	$\pm 5\%$ *
Volume	VTi, Vte	± 10 L	$\pm 2\%$ * or ± 0.20 mL (> 6 sL/min)**
Minute volume	Vi, Ve	0–300 sL/min	$\pm 2.5\%$ *
Peak flow	Insp./Exp.	± 300 sL/min	Air: $\pm 1.9\%$ * or ± 0.1 sL/min**
Pressure	Ppeak, Pmean, PEEP, Pplateau	0–150 mbar	$\pm 0.75\%$ * or ± 0.1 mbar**
Compliance	Cstat	0–1000 mL/mbar	$\pm 3\%$ * or ± 1 mL/mbar**
Volume trigger	Adult, Pediatric, HFO	flow or pressure at preset and at adjustable levels	

General Information	
Color display	yes
Realtime curves	flow, pressure, volume, temperature, oxygen, ventilation parameters
Interface	RS-232, USB, Ethernet, CAN, Analog Out, TTL (external Trigger Input), TSI4000 Protocol
Power	100–240 VAC, 50–60 Hz
Battery	4 hours
Dimension (w×d×h)	11.4 × 6 × 7 cm
Weight	0.4 kg
Calibration	annually
Memory card	yes
Approvals	CE, CSA, IEC 61010-1:2010, IEC 61326-2:2005

Legend 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 mbar (DIN 1343).

Subject to technical changes.

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