CITREX H4 test set The compact device for mobile use



Complete measuring system for mobile use.

The CITREX H4 test set is a certified, high precision measuring system with an extensive set of accessories.

The CITREX H4 can be used to validate and calibrate a wide range of ventilators and gas delivery systems. It's intuitive user interface and high resolution display makes set up and measurement a simple process.

CITREX H4

CITREX

device configuration monitoring

monitor panels

The device measures bi-directional flow, pressure, temperature and oxygen concentration. CITREX H4 is an appealing device thanks to its compact design, low weight and robustness.

CITREX Webserver Monitoring

Connect CITREX H4 to your IT network. Remote monitoring via your LAN network or the internet is child's play. The "Webserver Monitoring" software tool included in the scope of delivery can be used in any browser to evaluate and record your measured data in detail.

FlowLab

The test set also includes the advanced FlowLab software for detailed analysis and recording of all CITREX parameters. High resolution real-time curves, trending capabilities and advanced Excel reporting functions make it indispensable to experts.

CITREX H4 test set contains:

- CITREX H4
- EasyLung
- CITREX Webserver configurator and monitoring
- FlowLab activation code
- Oxygen sensor incl. activation code
- Adapter set
- Laminar flow tube
- Car adapter
- Micro SD memory card
- Protection filter RT019
- USB cable
- Ethernet cable
- Power supply
- Carrying bag
- Battery pack
- Quick start manual





Differential pressure

In addition to 17 gas standards and 8 gas types, the CITREX H4 has also a differential pressure sensor with a range of ± 200 mbar. The measured values of this sensor can be used for internal calculation of ventilation parameter and stored on an external memory media.

CITREX H4 test set for inspecting and certifying:

- CPAP/bi-level ventilators
- ICU ventilators
- High-frequency ventilators
- Blood pressure monitors
- Oxygen concentrators
- Spirometers
- CO₂ insufflators
- Medical gas supplies

Order number: 302.161.000



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CITREX H4 Technical Specifications

				△ IMT Analytics	CITREX H4 O	
Flow and process	re measurements	Bange	Accuracy			
Flow and pressu	Moosuring direction	Ridiroctional	Accuracy			
Flow		Automatic		P (HF) mbar 0 25		
		Automatic	Automatic			
	Pressure compensated	Automatic				
	Humidity compensated	Manually			×	
	O ₂ compensated	-				
	High Flow	± 300 sL/min***	± 1.9%* or ± 0.1 sL/min	(for 1040°C)**		
	Low Flow	-				
Pressure	High Pressure (P _{High})	0-10 bar	± 1 %* or ± 10 mbar**			
	Differential Pressure (P _{Diff})	± 200 mbar	± 0.75 %* or ± 0.1 mbar*	*		
	Relative Pressure	-				
	Low Pressure	-				
	Pressure in High Flow Channel (P _{Channel})	-50-150 mbar	± 0.75 %* or ± 0.1 mbar*	*		
	Atmospheric Pressure (P _{Atmo})	500 – 1150 mbar	± 1 %* or ± 5 mbar**			
	Vacuum Pressure	-				
Lipito	Flow	L/min. L/s. cfm. mL/r	nin. mL/s			
Units	Pressure	bar. mbar. cmH ₂ O, in	H₀O. Torr. inHɑ. hPa. kPa. mr	mHa. PSI		
Other measurements		Bange	Range Accuracy			
	Concentration	0-100%	+ 1% 0.**			
Oxygen	Prossure componented	0-100%	£ 1 /0 U2			
	In Llich Flow Observel		17E0/* ar 0 500**			
Temperature	In Figh Flow Channel	0-50°C	± 1.75%" or ± 0.5°C**			
Dew point	-					
Humidity	-					
CO ₂	-					
N-O						
1120						
HAL, ISO, ENF	-					
SEV	-					
DES	-					
Gas types		Air, O2, Air/O2, N2O, N	I2O/O2, He/O2, N2, CO2			
Gas standards		ATP, ATPD, ATPS, AF	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 paran	neters	Range	Accuracy			
Breath rate	Rate	1–1000 bpm	±1 bpm 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%*			
Breath volumes	V		±2%* or ±0.20mL (>6s	sL/min)**		
	Vti, Vte	± 10 L	± 2 %* or ± 0.20 mL (> 6	sL/min)**		
Minute volume	Vi, Ve	0-300 sL/min	±2.5%*			
Pressure	P _{Peak} , P _{Mean} , PEEP, P _{Plateau} , IPAP	0-150 mbar	±0.75%* or ±0.1 mbar*	*		
Peakflow	PF _{Insp} , PF _{Exp}	± 300 sL/min	± 1.9%* or ± 0.1 sL/min*	*		
Compliance	C _{Stat}	0-1000 mL/mbar	±3%* or ±1 mL/mbar**			
Trigger	Adult, Pediatric, HFO, ext. Trigger	Adult, Pediatric, HFO				
General informat	ion					
Power		100-240 VAC. 50/60) Hz			
Battery		4 hours	4 hours			
Power consumption		2.5-6 W				
Weight		0.40kg	0.40kg			
Dimensions (w \times d \times h)		$114 \times 7 \times 6$ cm				
Data storage		microSD Cord	microSD Card			
Display		1.7" with touch contr BS-232_LISB_Etherr	I.7 with touch control elements (color), Realtime curves RS-232 LISB Ethernet, CAN, Analog Out, TTL (external Trigger Input), TSI/000			
Interfaces		Protocol	Protocol			
Calibration		Annually	Annually			
Conditions Ambient temperature		15–40 °C (59–104°F)				
Conditions Humidity		10-90 % R.H.***	10-90 % R.H.***			
Approvals		CE, BC (Energy Effici IEC 61010-1:2010. IF	CE, BC (Energy Efficiency for Battery Charging Systems), CSA (North America), IEC 61010-1:2010, IEC 61326-2:2012			