

MasterScreen Pneumo

Technical specifications



Every MasterScreen Pneumo spirometer purchase comes with SentrySuite software.

Flow/volume/pressure measurements

Flow	Type	Pneumotach
	Range	0 to ± 20 L/s
	Resolution	10 mL/s
	Accuracy	0.1 to 14 L/s: $\pm 5\%$ or 0.2 L/s (whichever is greater) or 0.2 to 12 L/s: $\pm 2\%$ or 0.2 L/s (whichever is greater)
	Resistance	< 0.5 cmH ₂ O/L/s (0.05 kPa/L/s) at 10 L/s
	CMRR	60 dB at 50 Hz
Volume	Type	Pneumotach
	Range	± 20 L
	Accuracy	0.5 to 8 L: $\pm 3\%$ or ± 0.05 L (whichever is greater)
	Resolution	1 mL
Mouth pressure	Type	Piezo Resistive
	Range	± 20 kPa (± 150 mmHg)
	Accuracy	$\pm 2\%$
	Resolution	0.01 kPa (0.075 mmHg)
	CMRR	60 dB at 50 Hz

Power supply

Handle without power unit	Current	1 A
	Supply voltage	5 V DC
Handle with power unit	Main voltage	105/115/125/230 V AC; 50 to 60 Hz, max. 0.2 A
PC or notebook	Main voltage	100 to 240 V AC; 50 to 60 Hz, max 1.5 A (depending on PC/notebook)

Specifications continued on next page


Power supply (continued)		
Moisture protection according to EN 60529	Complete system	IP 20
Ambient conditions	Altitude	≤ 2000 m (≤ 6560 ft)
	Temperature	+ 10° C to + 34° C (+50° F to +93.2° F)
	Relative humidity	15% to 95% RH, non-condensing
	Ambient pressure	700 to 1060 hPa (525 to 795 mmHg)
Transport and storage conditions	Temperature	-20° C to +50° C (-4° F to +122° F)
	Relative humidity	15% to 95% RH, non-condensing
	Ambient pressure	600 to 1200 hPa (450 to 900 mmHg)
Classification	Handle/shutter	Applied part, type BF
Category according to MDD 93/42/EEC (2007)	Complete system	Active class IIa medical product
Operating mode	Operating mode	Continuous operation

Specifications subject to change without notice

CAUTION: U.S. Federal Law restricts this device to sale by or on the order of a physician. (Rx only)

CareFusion
22745 Savi Ranch Parkway
Yorba Linda, CA 92887

800.231.2466 toll-free
714.283.2228 tel
714.283.8493 fax

 CareFusion Germany 234 GmbH
Leibnizstrasse 7
97204 Hoechberg
Germany

+49 931 4972-0 tel
+49 931 4972-423 fax



CareFusion
Yorba Linda, CA

carefusion.com

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SentrySuite software	
OS	Windows XP Professional
Service pack	3
Other patches	None
Data platform	Microsoft SQL Server 2005 SP 3 or higher
Edition	Standard or Enterprise edition
Languages	English (US), German
.NET framework	2.0 for desktop version, 3.5 for Sentry.NET

Instrument and workstation requirements		
Computer	Manufacturer	Dell. Minimum single core processor with 2.3 GHz or dual core with 2.0 GHz or more
	Processor	Recommended dual core or quad core processor with 2.8 GHz or more
	RAM	Minimum 2 GB, recommended 3 GB
	Hard drive	Minimum 160 GB HDD, recommended 320 GB HDD
	Other drive	DVD-ROM, recommended DVD-RW
	Network	If networking: 100 Mbit/s TCP/IP, recommended 1000 Mbit/s
	OS	Windows XP Professional
	Service pack	3
	Interfaces	1 free serial RS 232 or 1 free USB 2.0 1 free PS/2 or 1 free USB 2.0 (for MasterScreen Pneumo unheated)
	Monitor	Screen resolution
Display		32 bit color
Power	Computer	100 to 240 V AC, 4.6 AAC
	Monitor	100 to 240 V AC, 4.6 AAC

