InterFlow™ Gas Blender

InterFlow™

Specification sheet

Critical Care ▪ Patient Interfaces

INTERSURGICAL®
COMPLETE RESPIRATORY SYSTEMS

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Application

Hospital use, continuous operation
Suitable for adults, paediatrics and neonates

Intended use

The InterFlow™ Gas Blender is intended to drive an air/oxygen blend at controlled flow and pressure to drive the required device for the chosen therapy. The InterFlow is intended for use with adult, paediatric and neonatal patients.

Modes

Adult CPAP: Flow control mode intended to deliver CPAP therapy to adult patients via a Facemask.

Adult Hood: Flow control mode intended to deliver CPAP therapy to adult patients via a Hood.

Adult HFOT: Flow control mode intended to deliver HFOT (High Flow Oxygen Therapy) to adult patients via a High Flow nasal cannula.

Infant HFOT: Flow control mode intended to deliver HFOT (High Flow Oxygen Therapy) to adult patients via a High Flow nasal cannula.

Infant nCPAP – Flow: Flow control mode intended to deliver nCPAP (nasal Continuous Positive Airway Pressure) to infant patients via an nCPAP generator.

Infant nCPAP – Pressure: Pressure control mode intended to deliver nCPAP (nasal Continuous Positive Airway Pressure) to infant patients via an nCPAP generator.

Manual Flow: Adjustable flow mode intended to allow the user maximum control of supplied flows.

Dimensions	
Size	H:128 mm x W:160 mm x D:110 mm
Weight	0.95 kg

Electrical rating	
Supply voltage	5V DC 500 mA
Supply frequency	50-60 Hz
Power rating	180-158 VA

Operating conditions	
Temperature	18°C to 26°C
Relative Humidity	10% to 80%
Atmospheric pressure	0 to 2,000m

Battery	
Type	Li-Ion
Operating time	0.5 hours
Capacity	3500 mAh, 12.6 Wh
Voltage	3.6V

Storage conditions	
Temperature	18°C to 26°C
Relative Humidity	10% to 80%
Altitude	0 to 10,000m

Alarm volume	
High Priority	56 – 72 dB
Medium Priority	53 – 68 dB
Low Priority	54 – 69 dB

Gas supply (STPD)	
O_2 supply	200 to 600 kPa; Medical oxygen
O_2 connection	NIST or DISS
Air supply	200 to 600 kPa; Medical air
Air connection	NIST or DISS

Performance (BTPS)	
O_2%	21 – 100%
Flow	4 – 100 L/min
Pressure	0 – 210 cmH_2O
Total System Response time	27 – 29s

Mechanical PRV	
Sustained pressure	< 300 cmH_2O
Peak pressure	< 300 cmH_2O

SD Card	
Type	Micro SD
Size	16GB
Read speed	>10MB/s
Class	4

System connections	
Gas outlet	18°C toa <44 dB(A) 26°C
Proximal pressure monitoring port	6% female luer

Noise emission	
Noise level	18°C toa <44 dB(A) 26°C

Measurements

PI (perfusion index)**	
Range	0.02 - 20.0 %
Resolution	0.01 for < 10%; 0.1 for >= 10%
Accuracy	--

Flow (STPD)	
Range	0 – 100%
Resolution	0.1L/min
Accuracy	1 cmH_2O

Outlet Pressure	
Range	0 – 250 cmH_2O
Resolution	0.1 cmH_2O
Accuracy	1 cmH_2O

Patient Pressure	
Range	0 – 35 cmH_2O
Resolution	0.1 cmH_2O
Accuracy	± 0.3 cmH_2O

O2*	
Range	0 – 100%
Resolution	0.1%
Accuracy	± 3 %
Data sample rate	5Hz

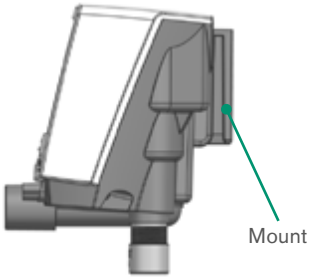
SpO2**	
Range	1 – 100%
Resolution	1%
Accuracy	± 3 digits (70 - 100%); unspecified (0 - 69%)
Data update period	1 s
Platform	Masimo®

Pulse**	
Range	25 – 240 b/min
Resolution	1 b/min
Accuracy	± 3%; ± 1b/min
Data update period	1 s

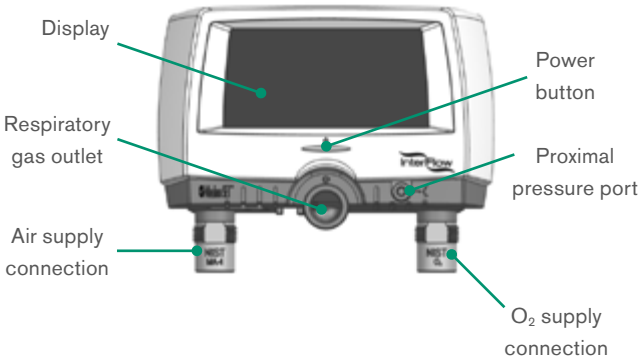
* The oxygen sensor is filtered for accuracy with a response time of 3.2s. The maximum output response time from 21-90% oxygen is 90s.

** Refer to IFU Section AA – 'Pulse Oximetry – Masimo SET®' for full details.

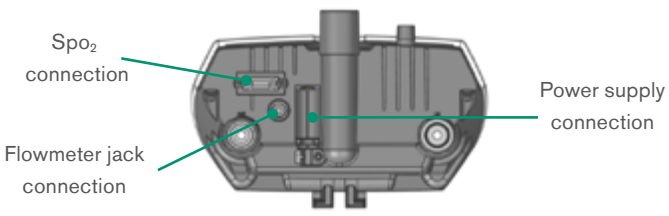
InterFlow side



InterFlow front



InterFlow base



Classifications

Protection class, electrical hazard	IEC 60601-1 Class II Medical Electrical Equipment.
Mode of operation	IP22 - Protected from touch by fingers and objects greater than 12 millimetres. Protected from water spray less than 15 degrees from vertical
Sterilisation	Do not sterilise
Applied Parts	This Device uses Type BF Applied Parts (Masimo SET® SpO2 sensors)

Product standards

The InterFlow™ complies with the following relevant standards:

- ISO 60601-1
- ISO 80601-2-12
- IEC 60601-1-6
- ISO 80601-2-55
- IEC 60601-1-8
- ISO 80601-2-61
- IEC 60601-1-10
- ISO 11195

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Mobile equipment stand

Gas bottle kit

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The manufacturer Intersurgical Ltd is certified to ISO 14001:2015, ISO 9001:2015, ISO 13485:2016 and MDSAP

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