Simple answers to complex questions

Respironics NM3 Respiratory Profile Monitor

Mechanically ventilated patients are constantly challenging clinicians with complex questions regarding their current respiratory status and the adequacy of ventilatory support. The Respironics NM3 monitors physiologic gas exchange, deadspace, and alveolar tidal volume, as well as a host of accessory parameters. This valuable insight helps you answer the toughest clinical questions, throughout the continuum of care.

Key advantages

- True mainstream or sidestream CO_2 monitoring for intubated and non-intubated patients

- Portable and adaptable monitoring, on and off all conventional ventilators

- Direct interface with the V200 Ventilator to expand data collection and display

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Respironics NM3 highlights

The Respironics NM3 non-invasively monitors volumetric (VCO_2) and end-tidal ($EtCO_2$) capnography. Clinicians can use this information to minimize the duration of mechanical ventilation and optimize the potential for successful extubation when managing critically ill patients. At every stage of care, the NM3 monitors the patient's response to ventilation. Bright, sharp, and well organized display screens present physiologic information on the patient's readiness for less support and spontaneous breathing trials (VCO_2, MValv, Vd/Vt). The lightweight, portable design allows inter-departmental use on ventilated patients and those under deep and conscious sedation.

Key applications
- Confirm proper endotracheal tube placement
- Determine true alveolar tidal volume, independent of dead space
- Determine the effects of ventilator changes before the first ABG
  is drawn
- Monitor appropriate PEEP levels, alveolar recruitment, and
  pulmonary perfusion
- Obtain non-invasive cardiac output measurements
- Assess readiness for weaning and extubation
- Monitor patients post-extubation and under conscious sedation

Monitor appropriate PEEP levels, alveolar recruitment, and pulmonary perfusion

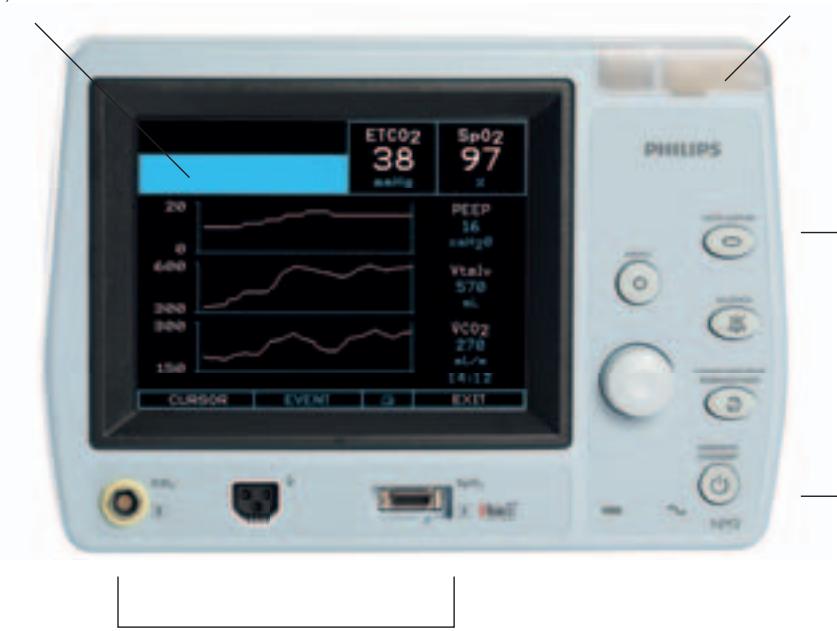Assess readiness for weaning and extubation

Specifications

Patient Types	
Adult, pediatric, and neonatal	
Operation	
Mainstream CO_2	Capnostat 5 Sensor
Sidestream CO_2	LoFlo Sensor (option)
Cardiac output	NICO Sensor (option)
Pulse oximetry	Masimo Sensors
Alerts	
Adjustable	$ETCO_2$, SpO_2, RR, no respiration, VCO_2, pulse rate, cardiac output
Audio (adjustable volume)	2 min, silence, or OFF
Visual	Screen indicator and alert bar with alarm priority
Nurse call	Normally opened, normally closed
Internal battery	
Life	45 min
Recharge time	12 h
Type	Lead acid gel cell
Communications	
Philips VueLink open interface	
Spacelabs Flexport open interface	
V200 interface	
Respi-Link	
Printer capability (PCL3 and PCL5)	
RS232	
USB	
Analog output port	

Parameters measured	Abbreviation
CO_2 elimination	VCO_2
End tidal carbon dioxide	$ETCO_2$
Inspired carbon dioxide	Insp CO_2
Mixed expired CO_2	$PeCO_2$
Respiration rate	RR
Oxygen saturation	SpO_2
Pulse rate	♥
Positive end expiratory pressure	PEEP
Mean airway pressure	MAP
Peak inspiratory pressure	PIP
Peak expiratory pressure	PEP
Peak inspiratory flow	PIF
Peak expiratory flow	PEF
Systematic vascular resistance	SVR
Airway deadspace	Vd Aw
Deadspace to tidal volume ratio	Vd/Vt
Rapid shallow breathing index	RSBI
Minute volume	MV
Alveolar minute volume	MValv
Inspired tidal volume	Vti
Expired tidal volume	Vte
Dynamic compliance	Cdyn
Airway resistance	Raw
Cardiac output (option)	
Cardiac output	C.O.
Cardiac index	CI
Stroke volume	SV
Stroke volume index	SVI
Pulmonary capillary blood flow	PCBF

Monitoring post-extubation and during conscious sedation

Bright, color display

Visual alarm indicator

ETCO2
38
mmHg

SpO2
97
%

PEEP
16
cmH2O

Vtals
570
mL

VCO2
270
mL/m

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Easy to navigate controls

Front panel connections for all
sensor inputs

LoFlo Sensor

for sidestream capnography

Capnostat 5 Sensor

for combined mainstream
capnography and flow monitoring

Masimo SET® Rainbow

for SpO_2 monitoring of all patients

Please visit www.philips.com/NM3

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