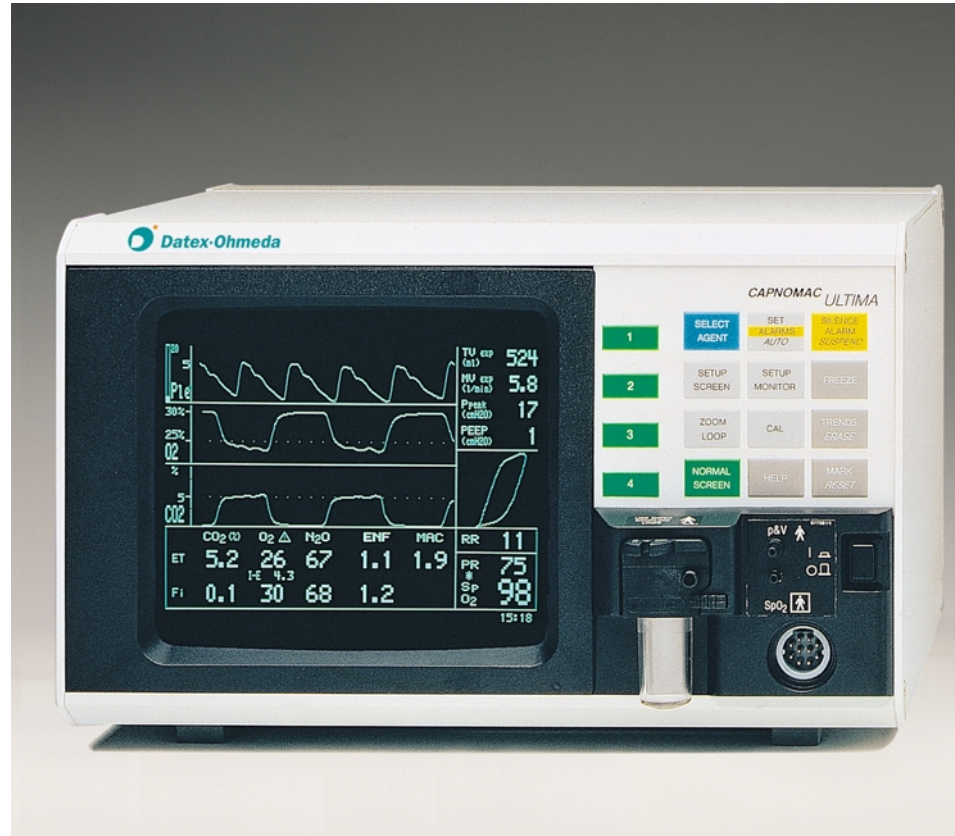


Capnomac Ultima™

The complete picture of patient respiration and ventilation



- The Capnomac Ultima™ is an economic patient monitor for anesthetic agent, ventilation and oxygen monitoring.
- The measurement range suits pediatrics and adults equally well.
- Each of the four Capnomac Ultima models lets you identify and measure all five anesthetic agents, which supports safe agent administration.
- Patient Spirometry™, which provides volume/pressure and flow/pressure information about ventilatory status, is an essential upgrade for any ventilator.
- Reliable and accurate measurement is based on Datex-Ohmeda's strong heritage of state-of-the-art gas technology. The maintenance-free oxygen sensor makes for low maintenance costs.
- With a clear display layout and intuitive user interface the monitor is easy to use.

Specifications

Carbon Dioxide (CO₂)

Measurement range	0...10 % (0...76 mmHg/ 0...10 kPa)
Measurement rise time	< 360 ms
Accuracy ^{*)}	0.2 vol %, 1.5 mmHg
Extended measurement range	10...15 % (76...114 mmHg/ 10...15 kPa)
Display update rate	breath-by-breath

Patient Oxygen (O₂)

Measurement range	0...100 %
Measurement rise time	< 480 ms
Accuracy ^{*)}	2 vol %
Display update rate	breath-by-breath

Nitrous Oxide (N₂O)

Measurement range	0...100 %
Measurement rise time	< 360 ms
Accuracy ^{*)}	2 vol %
Display update rate	breath-by-breath

Anesthetic agent

(Halothane, Isoflurane, Enflurane, Sevoflurane, Desflurane)

Measurement range	0...5 %; 0...18 % for Desflurane, 0...8 % for Sevoflurane
Measurement rise time	< 520 ms
Accuracy ^{*)}	0.2 vol %
Extended measurement range	5...15 %; 18...25 % for Desflurane, 8...15 % for Sevoflurane
Display update rate	breath-by-breath

Respiration rate (RR)

Measurement range	4...60 breaths/min
Detection criterion	1 % variation in CO ₂ baseline
Display update rate	breath-by-breath

Oxygen saturation (SpO₂)

Measurement range	40...100 %
Accuracy ^{*)}	2 % (80...100 %)

Pulse rate (PR)

Measurement range	30...250 beats/min
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Plethysmographic waveform

User-adjustable scale

Patient Spirometry

Provides the following ventilation and lung mechanics parameters:

Ppeak	Peak airway pressure
Pplat	Plateau pressure = end-inspiratory pressure
PEEP	End-expiratory pressure
TVinsp	Inspiratory tidal volume
TVexp	Expiratory tidal volume
MVinsp	Inspiratory minute volume
MVexp	Expiratory minute volume
I:E	Ratio between inspiration and expiration times
Compl	Dynamic compliance (valid for controlled mechanical ventilation)

Pressure volume loop
Flow-volume loop
Airway pressure waveform
Flow waveform

Alarms

Adjustable high and low alarm limits for EtCO₂, FiO₂, anesthetic agent, respiratory rate, SpO₂ and pulse rate
Adjustable alarm for CO₂ re-breathing level and PEEP
Non-adjustable for FiN₂O > 82 %, FiO₂ < 18 %, apnea, detection of unselected anesthetic agent, agent mixtures, occlusion, air leak, no probe and probe off

Trends

Graphic trends (0.5 h, 2 h, 6 h and 12 h) for CO₂, O₂ or O₂ difference, N₂O, anesthetic agent respiration rate, MAC or balance gas, SpO₂, pleth amplitude, pulse rate, peak and plateau pressure, PEEP, expiratory minute volume, compliance
Numeric trends (max 12 h) for CO₂, O₂, N₂O, anesthetic agent, SpO₂, pulse rate, peak pressure, PEEP, expiratory tidal and minute volumes, compliance

Display

9-inch monochrome video

External connections

Analog outputs for CO₂, O₂, N₂O, anesthetic agent, SpO₂ and plethysmographic waveform
Serial data output for graphics printer and computer interface
Composite video output for videoprinter

General data

Sampling rate	200 ml/min
Auto-compensation for atmospheric pressure variation (500-800 mmHg), temperature and CO ₂ -N ₂ O collision broadening effect	
Warm-up time 3 min (30 min for full specifications)	
Water trap container volume	9 ml
Operating temperature	+10...+35 °C (50...95 °F)
Storage temperature	-5...+50 °C (23...122 °F)
Power requirements	100/115/220/240 V AC; 50/60 Hz; 100 W
Meets IEC 601-1 requirements	
CSA certified	
CE marking according to Directive 93/42/EEC	

Dimensions and weight

Depth	340 mm (13.4 in)
Height	212 mm (8.4 in)
Width	330 mm (13.0 in)
Weight	12.5 kg (27.6 lbs)

^{*)} typical value

Ordering information

ULT-i	Airway gases, (CO ₂ , Patient O ₂ , anesthetic agent and N ₂ O) agent identification
ULT-Si	Airway gases, SpO ₂ and agent identification
ULT-Vi	Airway gases, Patient Spirometry and agent identification
ULT-SVi	Airway gases, SpO ₂ , Patient Spirometry and agent identification

For details of additional supplies and accessories please contact your local Datex-Ohmeda distributor or contact us directly.

Subject to change without notice.



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