

Meditec 1700

Ventilator



Ideal for use in an ICU, Intra-Hospital transport, Air and Ground transport. Simplicity, In-built air supply, versatility and affordable cost

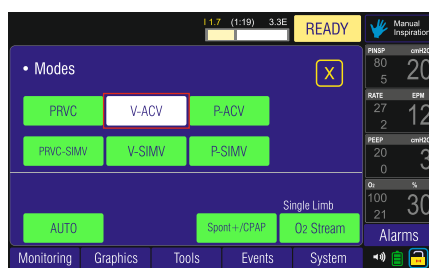


Meditec England

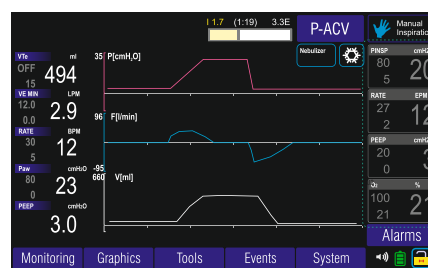
The Meditec 1700 is designed to work in a highly versatile environment, whether you need Invasive or Non-Invasive ventilation, it delivers both. Meditec 1700 is micro-processor controlled design with wide range of Ventilation modes to suit individual preferences.

Features

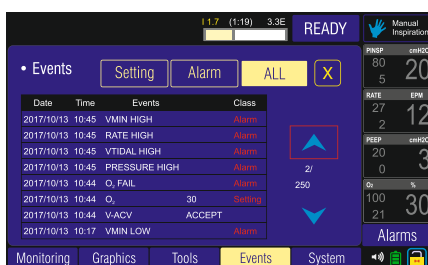
- Suitable for adult and paediatric patients
- Built-in turbine technology
- Pressure & Flow waveforms with Trends Facility
- FiO₂ Measurement
- Suitable with both dual as well as single limb breathing circuits
- Patient History storage capability
- Automatic Parameters adjustment of patient according to Height & Weight
- Touch screen as well as knob operated
- Provision for 100% oxygen for a period of 2 min before disconnecting for suctioning
- Inspiration hold: Measures patient's lung compliance and resistance, Elasticity, Time constant
- Key lock: Key & LCD Radiogram Touch Screen Lock
- Waveform freeze: Freezes the waveform
- Alarm silence: Mutes audible alarms for 2 minutes
- Alarm reset: Clears visual indicators and messages
- Easy detaches from trolley and moves with patients
- Mobile stand with quick-release
- APNEA backup with option PACV, VACV with pressure limit
- Shock Resistant (Drop Test compliant)
- Altitude compensation



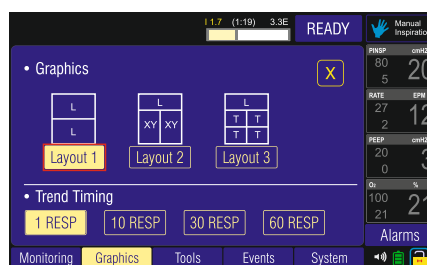
Modes Screen



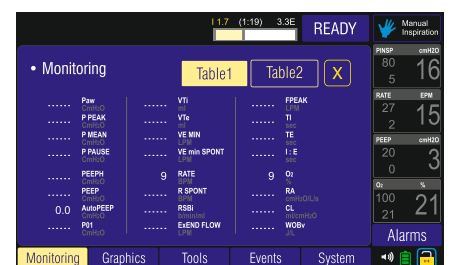
Waveforms



Event Log



Graphics - Wavegraph, Trend & Loop



Monitoring Parameters



Non-Invasive Ventilation

Meditec 1700 comes in a full range of clinical requirements with invasive ventilation, automated ventilation and non-invasive mask ventilation.



Invasive Ventilation

Performance Data

- Valve response time ≤ 5 ms
- Control principle Time cycled, volume constant, pressure-controlled
- Safety relief valve 100 mbar/cmH₂O
- Automatic Leakage compensation
- Breathing hose & Dynamic compliance compensation
- Max. flow for pressure support and spontaneous breathing 180 L/min

Operating Data

- Power consumption Approx. 150VA
- O₂ supply pressure range : 2.4 - 6.9 bar / 35-90 psig

Weaning

- O₂ Streaming assisted therapy for weaning patients
- Exsens & Ex-trig value, W.O.B. of patient
- SIGH with interval 30, 60, 90, 120 / breath
- BTPS reduces Tidal Volume error

The 1700 ventilator combines reliability and high performance.

12.1" TFT Graphical Display Unit (Optional)



Monitoring Parameters

| | |
|----------------------|----------------------|
| V _E Tidal | P _{peak} |
| V _E Min | P _{mean} |
| Resp | V _I Tidal |
| P _{Pause} | F _{peak} |
| PEEP | O ₂ % |

Optional Parameters

| | | |
|------------------|-------------------|------|
| PR | EtCO ₂ | Resp |
| SpO ₂ | iCO ₂ | |

Waveform

| | | |
|-----|-----|-----|
| P-T | F-T | V-T |
|-----|-----|-----|

Technical Specifications

| | |
|--|--|
| Display Screen | 8" Screen with Touch Control & Rotary Knob |
| Parameters | Set Parameters / Measured Parameters / Alarm Status / I:E Ratio |
| Waveforms | Pressure-Time, Flow-Time, Volume-Time |
| Loops | Pressure-Volume, Flow-Volume, Pressure-Flow |
| Modes | PACV, PSIMV, VACV, VSIMV, AUTO (Emergency Quick Start), Spont+, PRVC, ACPAP+, PRVC+SIMV |
| Tidal Volume | 50–2500 ml |
| Pressure Support | 0–60 cmH ₂ O (PEEP + PSV < 100cmH ₂ O) |
| PEEP/CPAP | 0–45 cmH ₂ O |
| Respiratory Rate | 2–120 bpm |
| Inspiratory Pressure | 5–80 cmH ₂ O (Peep + Pins < 100cmH ₂ O) |
| Inspiratory Pressure Limit | 5–80 cmH ₂ O |
| Inspiratory Flow | (-) 6–120 L/min (Adult), (-) 6–30 L/min (Paediatric and Neonatal) |
| Inspiratory Time | 0.1–9.9 sec |
| I:E Ratio | 1:9.9–2.5:1 |
| Rise Time (in PCV) | Fast, Medium, Slow (0–2 sec) |
| Apnea Time | 2–60 sec |
| Apnea Backup Type | PACV, VACV Mode, backup with insp. pressure, Tv |
| Trend | 72 hrs |
| Enable inhalation trigger (En-sense) | 10–80% of Inhaled volume |
| Exhalation trigger Sensitivity (Ex-trig) | 10–80% of peak flow in exhalation |
| Trigger Sensitivity | Pressure Trigger : OFF, (-)0.5 to (-)20 cmH ₂ O Flow Trigger : OFF, 0.5 to 20 lpm |
| FiO ₂ % | 21%–100% |
| Suitable Body Weight | Volume Mode: 10–150 kg (Paed., Adults), Pressure Mode: 1–150 kg (Neo., Paed., Adults) |
| Nebulizer (time) | 10–180 mins (3 Hours) |
| Altitude Volume Compensated | (-)100–6560 [m] |
| Alarms | Airway Pressure / Tidal Volume / Minute Volume / Respiratory Rate / Apnea / O ₂ % / Airway Leak / Circuit Open / Battery Indicator / O ₂ Supply Pressure Failure / Ventilator In-operative |
| Power | AC: 100–240V 50–60 Hz, DC : 10.8V, 8.8A Power Consumption : 150W |
| Power Backup | 4 Hrs. internal battery backup |
| International Standard | IEC 60601-2-12:2001 - lung ventilator |

Physical Specifications

| | |
|------------------------|-----------------------------------|
| Dimensions (W x D x H) | 250mm x 156mm x 371mm |
| Weight | 7.5 kgs. (main unit with battery) |

Environmental Requirements

| | |
|-----------------------|---------------|
| Storage Temperature | (-) 20°C–50°C |
| Relative Humidity | 10–90% |
| Operation Temperature | 0°C–50°C |

Optionals

| | |
|----------------------------------|--------------------------------|
| 12.1" TFT Graphical Display Unit | BIPAP Mode |
| Nebulizer | APRV Mode |
| Humidifier | Extended Battery (up to 4 hrs) |
| SpO ₂ Monitoring | Carry Bag |
| EtCO ₂ Monitoring | Stand |



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