



**ALLIED**  
MEDICAL

**Meditec 1700**

Ventilator



CE  
0297

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

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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
- FiO<sub>2</sub> 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
- Provision for 100% oxygen for a period of 2 mins. 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 with scrolling facility

- Alarm silence: Mutes audible alarms for 2 mins.
- Alarm reset: Clears visual indicators and messages
- Easily detachable from trolley and moves with patients
- Mobile stand with quick-release
- APNEA backup with option PACV, VACV with pressure limit
- Shock Resistant (Drop Test certified)
- Touch screen as well as knob operated
- Altitude compensation
- 2000 Events storage, alarms and settings
- High pressure O<sub>2</sub> supply inlet - To connect to wall outlet, O<sub>2</sub> cylinder
- Low flow O<sub>2</sub> supply inlet - To connect to O<sub>2</sub> concentrator
- BTPS reduces Tidal Volume error



## 12.1" TFT Extended Graphical Display Unit (Optional)

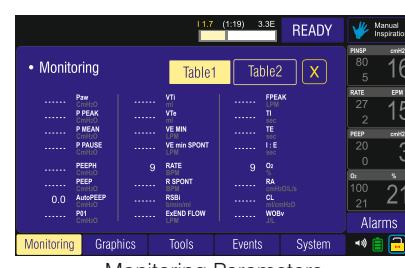
Monitoring Parameters	
V <sub>E</sub> Tidal	P <sub>peak</sub>
V <sub>E</sub> Min	P <sub>mean</sub>
Resp	V <sub>I</sub> Tidal
P <sub>Pause</sub>	F <sub>peak</sub>
PEEP	O <sub>2</sub> %

Optional Parameters		
PR	EtCO <sub>2</sub>	Resp
SpO <sub>2</sub>	iCO <sub>2</sub>	

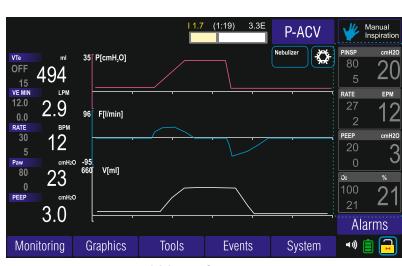
Waveform		
P-T	F-T	V-T



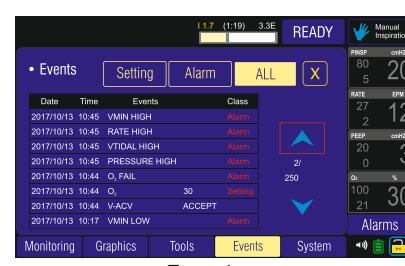
Modes Screen



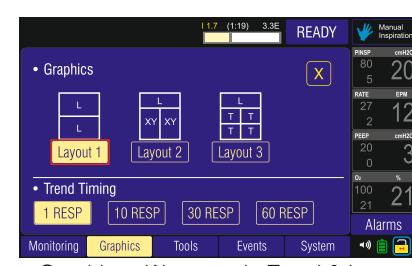
Monitoring Parameters



Waveforms



Event Log



Graphics - Wavegraph, Trend & Loop



Military tough, drop test certified.

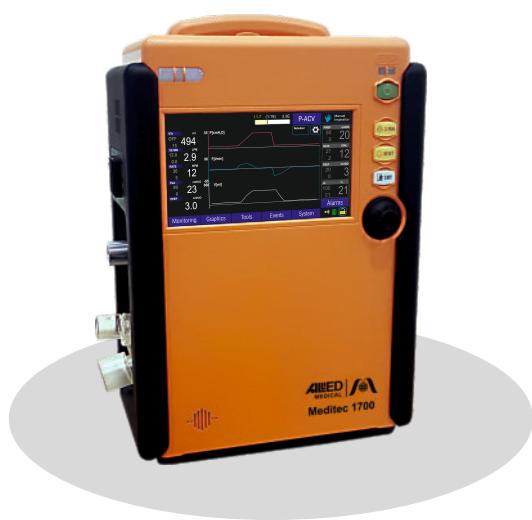
Compliance with wide variety of aviation standards (RTCA DO160F, EN 60601-1-1-2 & EN 13718-1) to ensure a smooth air worthiness approval process for medical air transport requirements.

**250+ Indian Defence establishments are using more than 1000 Meditec 1700 ventilators**

The image shows a close-up of the orange and black Meditec 1700 ventilator unit on the left, followed by a grey arrow pointing to a larger photograph on the right. The right photograph shows a large room filled with rows of Meditec 1700 ventilators, all connected to a central monitoring system. The room has "PM CARES" branding on the wall.

#### In the Fight Against COVID-19

Allied Medical successfully installed more than 2000 ventilators across India in fight against Covid-19 including supplies made under PMCARES.



Non-Invasive Ventilation



Invasive Ventilation

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

#### Performance Data

- Valve response time  $\leq 5$  ms
- Control principle Time cycled, volume constant, pressure-controlled
- Safety relief valve 100 mbar/cmH<sub>2</sub>O
- Automatic Leakage compensation
- Breathing hose & Dynamic compliance compensation

#### Operating Data

- Power consumption Approx. 105W
- O<sub>2</sub> supply pressure range : 2.4 - 6.9 bar / 35-90 psig

#### Weaning

- O<sub>2</sub> Streaming assisted therapy for weaning patients (HFNC)
- Ex-sens & En-sens, W.O.B. of patient

## 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+CPAP, PRVC, ACPAP+, PRVC+SIMV, O <sub>2</sub> Stream
Tidal Volume	50–2500 ml, PCV Mode TV range : 10–2500ml
Pressure Support	0–60 cmH <sub>2</sub> O (PEEP+PSV < 100cmH <sub>2</sub> O)
PEEP/CPAP	0–45 cmH <sub>2</sub> O
Respiratory Rate	2–120 bpm
SIGH	With Interval 30, 60, 90, 120 /breath
Inspiratory Pressure	5–80 cmH <sub>2</sub> O (PEEP+Pins <100cmH <sub>2</sub> O)
Inspiratory Pressure Limit	5–80 cmH <sub>2</sub> O
Inspiratory Flow	(-)6–240 L/min (Adult), (-)6–30 L/min (Paediatric and Neonatal)
Inspiratory Time	0.1–9.9 sec
I:E Ratio	4.7:1–1:149
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
Inhalation Enable Sensitivity (En-sens)	10–80%
Exhalation Enable Sensitivity (Ex-sens)	10–80%
Trigger Sensitivity	Pressure Trigger : OFF, (-)0.5 to (-)20 cmH <sub>2</sub> O Flow Trigger : OFF, 0.5 to 20 lpm
FiO <sub>2</sub> %	21%–100%
Suitable Body Weight	Volume Mode: 10–150 kg (Paed., Adults), Pressure Mode: 1–150 kg (Neo., Paed., Adults)
Altitude Volume Compensated	(-)328 ft.–21522 ft. {(-)100 mtr.–6560 mtr.}
Alarms	Airway Pressure / Tidal Volume / Minute Volume / Respiratory Rate / Apnea / O <sub>2</sub> % / Airway Leak / Circuit Open / Battery Indicator / O <sub>2</sub> Supply Pressure Failure / Ventilator In-operative/ Air Obstruction
Power	AC: 100–240V 50–60 Hz, DC : 10.8V, 8.8A, Power Consumption : 105W
Power Backup	6 Hrs. internal battery backup

## 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 Extended Graphical Display Unit	SpO <sub>2</sub> Monitoring
Nebulizer	EtCO <sub>2</sub> Monitoring
Ultrasonic Nebulizer	Extended Battery
Humidifier	Carry Bag
Humidifier with heating	Ambulance Mount
ABIPAP+/APRV Mode	Stand

Manufactured in India by

**Allied Medical Limited**

76-77, Udyog Vihar, Phase IV,  
Gurugram - 122 015, Haryana, INDIA  
Phone : +91 124 4111444  
Mobile : +91 9811184252  
Toll Free : 1800 102 7879  
E-mail : sales@alliedmed.co.in  
Website : www.alliedmed.co.in



Design & Technology Partner



**Meditec International England Limited**

E-mail : sales@meditecengland.co.uk  
Website : www.meditecengland.co.uk

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