

# O-Two Self-Study Guide

**e500 Transport Ventilator  
Live Monitoring  
Parameters**



## Live Monitoring Parameters

The following describes the Live Monitoring Parameters that are displayed on the e500 ventilator screens.



### Mve (L):

Minute Volume is the total exhaled volume for the last 60 seconds as calculated using the last 8 breaths.

- The Mve will constantly change.
- The value is recalculated and displayed at the end of exhalation phase.
- When the unit is first turned on or resumed after pausing or making a mode selection, the Mve calculation will be based on every exhaled breath until the 8<sup>th</sup> exhaled tidal volume.
- Once the 8<sup>th</sup> exhaled tidal volume is achieved the calculation will resume as stated above.

### Vte (ml):

Tidal Volume is the volume exhaled by the patient in Mandatory, Spontaneous or Pressure Support Ventilation (PSV) breaths.

- Vte is calculated based on the entire expired flow displayed as volume.
- Vte is updated at the beginning of the next inspiratory phase (at the end of the exhalation phase).

## Paw AV (cm H<sub>2</sub>O):

Paw AV is the average patient airway pressure measured during the last 60 seconds.

- This measurement is monitored by the ventilator at all times and modes.
- The number on display will be updated every 15 seconds.

## Paw Peak (cm H<sub>2</sub>O)

Peak air way pressure is the maximum pressure measured during the inspiratory phase.

- The number on the screen represents the maximum pressure during mandatory inspiratory phase of Assist Control (A/CV), Spontaneous Intermittent Mandatory Ventilation (SIMV), BiLevel (BiLVL), and CPR modes.
- In CPAP mode the maximum pressure during the spontaneous inspiratory phase is displayed.
- The number is updated at the end of each inspiratory phase.


## Rate (BPM)

Rate (BPM) is the rate at which the breaths are delivered in one minute.

- The monitored breath rate is calculated by measuring the time interval (Tb means inspiration + expiration time) between 2 breaths.
- Rate (BPM) equals 60 / Tb.
- The number is updated after each breath.
- The number is displayed for both mandatory and spontaneous breathing phases.
  - Mandatory means ventilator controlled.

**NOTE:** Mve, Rate and Paw are not active during CPR mode and are displayed with “- -”.

## Ventilation Waveform Display

The ventilation waveform display provides a breath-by-breath visual representation of the breathing cycle. By pressing the Waveform Selection Button  the waveform display will switch between pressure and flow ventilation waveforms on the screen.



**Pressure waveform**



**Flow Waveform**

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