

Before use, please consider contraindications of PulmoVista 500 listed in the Instructions for Use.



### Step 1: Electrode Belt

- Determine the proper belt size with the help of the measurement tape



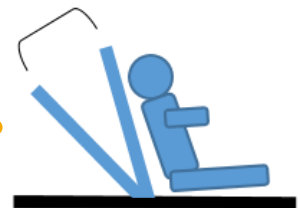
- Measure about 5cm (two inches) below the armpits from axilla to axilla
- Without measurement tape determine the size with the electrode belt: Hold the *mid position marker* approx. 5cm below the axilla and place the end with the belt closure over the thorax to the opposite side. The belt should fit when the closure holes, preferably the one in the middle, are below the opposite axilla.
- Attach *snap 1* of the patient cable to the belt
- Apply patient cable in a sine pattern (see image)



### Step 2: Belt Placement

- Apply the belt by lifting the patient (or rolling the patient to the side) or
- Put the bed to a 45° - 80° position (if patient condition allows it), lift the patient's head and put the *mid position marker* of the belt to the cervical spine

45° to 80°



Lift the upper body a bit to move the belt downwards to place it between the 4<sup>th</sup> and 6<sup>th</sup> intercostal space

- Apply electrode gel to the electrodes to facilitate good skin contact
- Ensure that the *mid position marker* is still on the spine
- Close the belt just tight enough to provide contact between skin and electrodes
- Connect the *closure snap* to the closure stud
- Apply an ECG electrode on the abdomen and attach the *reference electrode snap* to it
- Electrodes 1 + 16 should be placed equidistant from the sternum
- For **female** patients the belt should be placed onto the breast
- For **pediatric** patients:



- Place the electrode belt as cranially as possible directly under the armpits
- The pediatric belts have no closure snap: Attach the flap of the belt to electrode stud 16 at a suitable position of the belt closure. Attach electrode snap 16 of the patient cable to the electrode stud of the electrode belt.



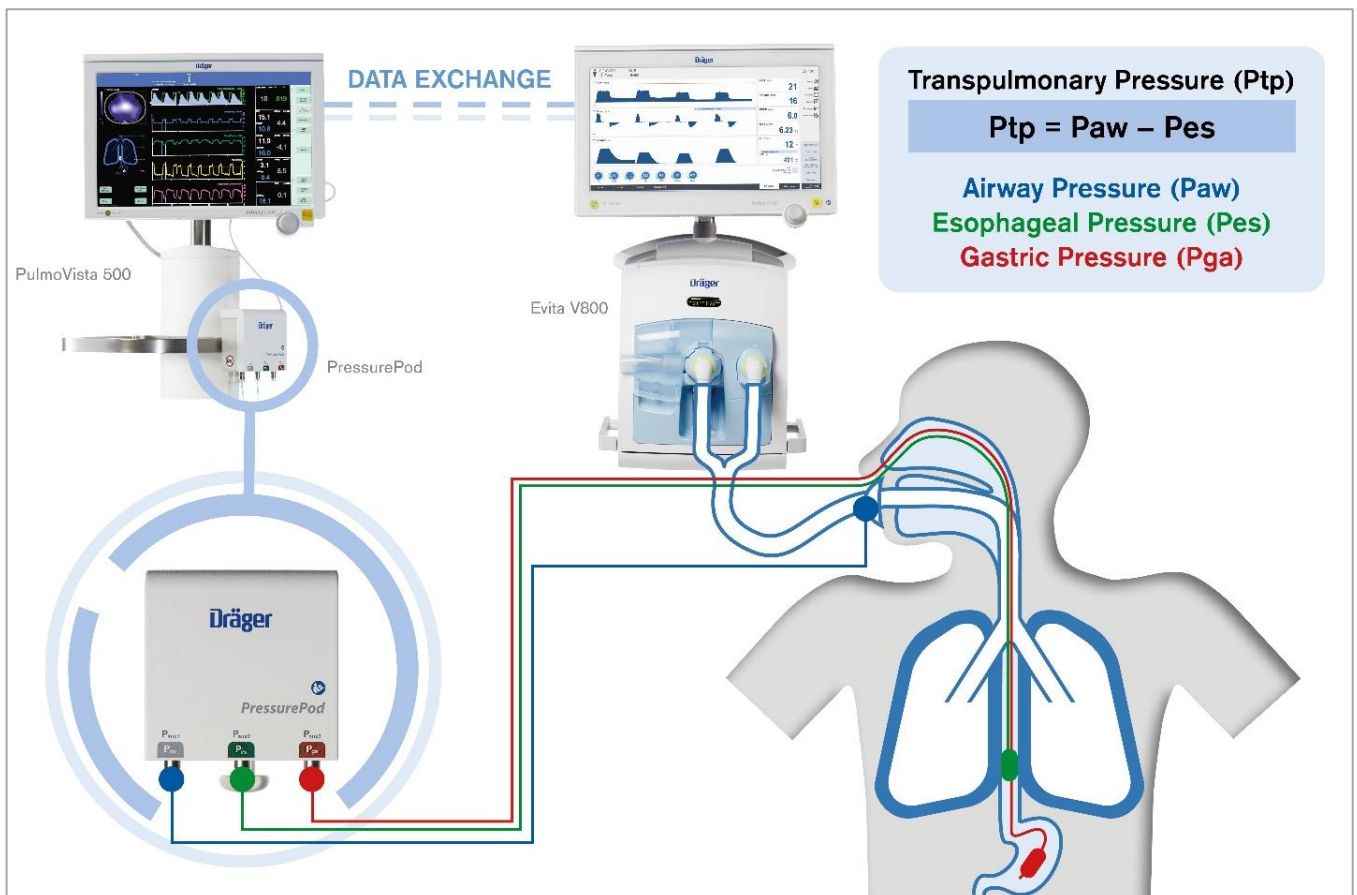
### Step 3 (optional): Set-up of Pressure Measurement (PressurePod)

Attach the PressurePod to the handle of the PulmoVista 500 and connect it with the USB cable to the PulmoVista cockpit

- For measuring Airway Pressure (Paw):
  - Connect a disposable syringe filter to the Paw/Paux1 port.
  - Connect male/female standard perfusor line to the syringe filter
  - Connect the other end pressure measuring line to a patient-side Luer-Lock connector of the breathing circuit
- For measuring Esophageal Pressure (Pes):
  - Attach a male/female perfusor line to the Pes/Paux2 port and use a 3-way stop-cock to connect it to an esophageal balloon catheter\* at the patient side
- For measuring Gastric Pressure (Pga):
  - Connect a male/female perfusor line to the Pga/Paux3 port and use a 3-way stop-cock to connect it to a gastric balloon catheter\* at the patient side
- Turn on PulmoVista 500 and activate the “PressurePod measurements” in the Start/Standby window



\* Before inserting and using the balloon catheter, strictly follow the Instructions for Use of the catheter connected to the PressurePod.



### Step 4 (optional): Connecting to a Dräger device

PulmoVista 500 can display data from Dräger devices using the **MEDIBUS-** or **MEDIBUS.X protocol**. Connect one of the following Dräger devices with the appropriate MEDIBUS cable to the COM 1 port of PulmoVista 500:

- Babylog VN800 / VN600, Babylog VN500
- Evita V800 / V600, Evita Infinity V500, Evita V300, Savina 300, Evita XL, Evita 4 (edition), Evita 2 dura
- Atlan A300, A300 XL, A350, A350 XL, Perseus A500, Primus (only device that needs baud rate 9600), Zeus

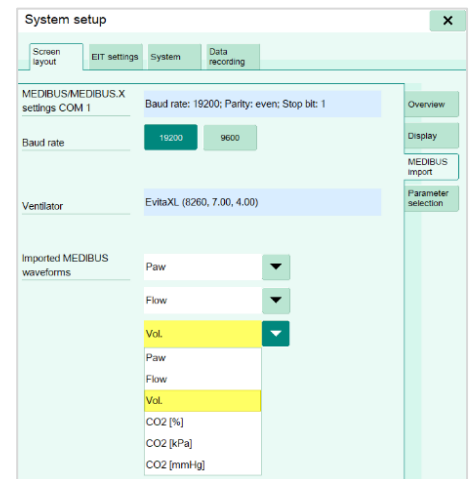
The following MEDIBUS data can be displayed:

- *Main view:* MEDIBUS waveform and Tidal volume
- *End-inspiratory trend, ΔEELI trend view:* 3 configurable parameters
- *Diagnostics view:* PEEP and EIP (or PIP, if EIP is not available)
- *Data review page:* All MEDIBUS parameters

All measured values and the 3 real-time waveforms of MEDIBUS or MEDIBUS.X are recorded as part of data recording (requires *Option ADAP*).


Configuring the MEDIBUS import

- The parity (*Even*) and stop bit (*1*) settings for COM 1 are fixed on PulmoVista 500 and must be adjusted on the connected Dräger device respectively.
- On the *MEDIBUS import* page, you can change the *Imported MEDIBUS waveforms*
- On the *Parameter selection* page you can change the *Display of imported waveforms, Trend display and Lung mechanics*



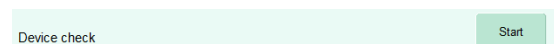
### Step 5: Device Check

- Insert the patient cable plugs into their respective test connectors

 Match label and color




- Select "Device Check" while device is in standby, select "Start" and confirm.



### Step 6: The Start

- The trunk cable needs to be connected to the patient cable

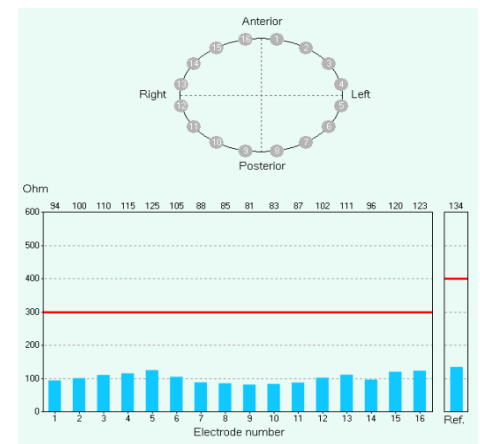
 Match label and color




- Select Start/Stand-by screen and choose "New patient"

- Check, whether electrodes have proper skin contact:

- Go to signal check page:  
All bars have to be below the red line and be displayed in blue color
- If one electrode cannot be attached to the skin, e.g. because of a wound dressing, EIT measurements can still be performed with only 15 electrodes. However, at least 15 electrodes must have effective contact with the skin.



 If the skin electrode impedance is not appropriate use electrode gel, add tap water or wait a few minutes until moisture from the skin improves the contact. This also applies for the reference ECG electrode.

- Select Start/Stand-by screen again

- Select and activate the available measurements before starting a new monitoring session

- If a patient interface has been detected, the *EIT measurements (A)* will be automatically activated.
- If the PressurePod is connected, select the desired pressures (B) and activate the *PressurePod measurements (C)*

- Press Start Measurements (D)  
(the device will calibrate for approx. 30 seconds)

