

Analog display on LCD for easy visualization of changes in pressure!

Places balloon quickly inside the trachea

T.L.F Cuff

Cuff inflator



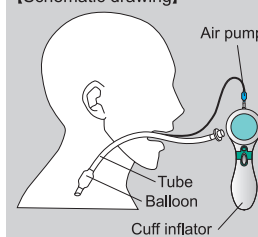
- T-mode** ... When an endotracheal tube is used
- L-mode** ... When a laryngeal mask is used
- F-mode** ... No restrictions

What is a cuff inflator?

It is a device used with an endotracheal tube or tracheotomy tube to check the expansion, contraction and internal pressure of the balloon to quickly place a tube inside the trachea.

When O₂ is supplied with just the tube inserted into the trachea, the oxygen simply leaks out from gaps between the trachea and tube. To prevent this, a balloon is inflated with the appropriate amount of pressure (too much pressure damages the trachea) to close off the gaps and prevent O₂ leakage.

[Schematic drawing]



The cuff pressure gauge checks for appropriate pressure ensuring peace of mind and safety!

Five points to take note of:

1. **Analog display on LCD** for easy visualization of changes.
2. **Installed with backlight** for ease of use even in dark places.
3. **Display changes color** depending on the situation for ease of use.
4. Balloon inflates to close gaps between the tube and trachea, **preventing oxygen leakage.**
5. Pressure is controlled appropriately, preventing excess pressure and **protecting the trachea.**



It is considerably easier to use and safer compared to traditional, analog cuff inflators!
Can be used even in a dark ICU!

A revolutionary cuff pressure gauge with an evolved digital screen that is safe and easy to use.



Way to take measurements

1 Switch on device (hold down button).

2 Select mode according to the tube cuff pressure to be measured.

3 Join tube to be measured to cuff inflator.

4 Insert tube into patient and inflate cuff to display pressure.

5 That completes the measurement (turn off the switch).

* The display lights up red and a buzzer goes off when an abnormality is detected in the internal pressure gauge function. If this happens, press the release button to deflate the balloon.
 * The amount of power remaining in the batteries is shown on the display at the time it is turned on. Replace with brand new batteries if a sign appears instructing you to do so.

Product specifications

* Please note that specifications may change without prior notification.

Accuracy of measurements	$\pm 4\text{cmH}_2\text{O}$ [hPa] (± 0.39224 [hPa])		
Measuring range	T-mode: 0-64cm H ² O [hPa] / L, F-mode: 0-128cm [hPa] (using laryngeal mask)		
Leakage	Less than 10cm H ² O [hPa] (when used for 15 seconds at 40cm H ² O [hPa])		
Buttons	Switch, Mode-switching button, cuff support, release button		
Pressure control	T-mode	No further pressure can be applied when pressure exceeding 32cm H ² O [hPa] is detected. Pressure can be applied once more through the cuff support when the pressure returns to the 0-32cm H ² O [hPa] range.	
	L-mode	No further pressure can be applied when pressure exceeding 60cm H ² O [hPa] is detected. Pressure can be applied once more through the cuff support when the pressure returns to the 0-60cm H ² O [hPa] range.	
Triggering of buzzer	T-mode	Below range of recommended pressure	Display lights up yellow as a warning when pressure falls below 22cm H ² O [hPa] (returns to normal when pressure rises above 22cm H ² O [hPa])
		Recommended pressure range	When pressure within the range of 22-32cm H ² O [hPa] lasts for more than 5 seconds, the buzzer sounds at 1 second intervals for 3 seconds at a time, and the LCD turns blue
		Above range of recommended pressure	Buzzer goes off and the display lights up red as an alert when pressure rises above 32cm H ² O [hPa] (returns to normal when pressure falls below 32cm H ² O [hPa])
	L-mode	Below range of recommended pressure	Display lights up yellow as warning when pressure falls below 50cm H ² O [hPa] (returns to normal when pressure rises above 50cm H ² O [hPa])
		Recommended pressure range	When pressure within the range of 50-60cm H ² O [hPa] lasts for more than 5 seconds, the buzzer sounds at 1 second intervals for 3 seconds at a time, and the LCD turns blue
		Above range of recommended pressure	Buzzer goes off and the display lights up red as an alert when pressure rises above 60cm H ² O [hPa] (returns to normal when pressure falls below 60cm H ² O [hPa])
Type of display	F-mode		This mode has no alarm because there are no restrictions
	LED		Switched on: LED turns on / Switched off: LED turns off
	Displaying of internal pressure		Displayed on an analog meter using segment LCD
	Resolution		1cm H ² O [hPa] (number of segments on meter: 64 points)(0.09806 [hPa])
	Mode indicator		An icon is displayed to indicate the mode that the device is in
	Scale	Scale in A-mode	0-64cm H ² O [hPa] / 1cm H ² O [hPa] increments
		Scale in B&C-modes	0-128cm H ² O [hPa] / 2cm H ² O [hPa] increments
	Battery power icon		Good/Low/Flat
Automatic turning off	LCD backlight		Yes
	Malfunction alarm		LCD backlight turns red when there is a malfunction in the pressure sensor, and the buzzer goes off as a warning.
	Enters sleep mode if left untouched (no changes in readings) for more than 5 minutes		
Restarting from sleep mode	Device is restarted from sleep mode when the cuff support is operated, or a pressurized tube is connected		
Temperature and humidity range during use	10-40 [°C] / 30-85 RH [%]		
Temperature and humidity range for storage	-20-60 [°C] / 10-95 RH [%]		
Pharmaceutical classification	Class I		

Manufacturer



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