

MAIA-01

Multifunctional device of inhalation anesthesia for adults and children

The device is intended for carrying out of inhalation anesthesia in cases of surgical interventions with provisions of artificial lungs ventilation and monitoring of different parameters.



Advantages

- Universality: suitable for patients of different age
- Availability of electronic dosimeter for 4 gases
- Availability of operation with reversible and irreversible breathing circuits
- Wide variety of ventilation modes
- Possibility of configuration with patient monitor
- Possibility of operation from battery (60 min.)

Technical characteristics

Anesthetics

nitrous oxide (N₂O), isoflurane (Iso), sevoflurane (Sev), xenon (Xe)

Modes of ventilation

Controlled ventilation:

- volume-controlled (VCV)
- pressure-controlled (PCV)
- periodical lungs inflation "INSPIRATION" (VCV+Sigh)
- positive end-expiratory pressure (PEEP electronic)

Assisted control mandatory ventilation:

- pressure support ventilation (PSV)
- apnea ventilation (VCV+Apn)
- synchronized periodic ventilation (pSIMV+PSV and vSIMV+PSV)

Spontaneous breathing (Spont)

Manual ventilation (Manual)

Pressure (P), PEEP, tidal volume, ventilation frequency, Fin O₂, Fin Xe

Parameters on an integrated monitor display

Parameters on a patient monitor display

(additional configuration)

- saturation of arterial blood with oxygen (SpO₂)
- pulse rate (PR)
- heart rate (HR)
- respiratory rate (RR)
- concentration of N₂O at inspiration and expiration
- concentration of liquid anesthetics fumes at inspiration and expiration
- minimum alveolar concentration of liquid anesthetics fumes (MAC)
- content of CO₂ at inspiration and expiration
- blood pressure, non-invasive (NIBP: SYS/DIA/Mean)
- patient body temperature (T)