

# 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 provision of artificial lungs ventilation and monitoring of different parameters.



### Advantages

- Universality: it is suitable to patients of different age
- Availability of electronic dosimeter for 4 gases
- Possibility to operate with reversible and non reversible breathing circuit
- Wide variety of ventilation modes
- Possibility to be equipped with patient's monitor
- Possibility of operation from accumulator (60 min)

### Technical characteristics

#### Anesthetics

Nitrous oxide (N<sub>2</sub>O), Isoflurane (Iso), Sevoflurane (Sev), Xenon (Xe)

#### Ventilation modes

##### Controlled:

- volume-controlled ventilation (VCV)
- pressure-controlled ventilation (PCV)
- intermittent lungs inflation "SIGH" (VCV+Sigh)
- positive end expiratory pressure (electronic PEEP)

##### Mandatory assisted:

- pressure support ventilation (PSV)
- apneic ventilation (VCV+Apn)
- synchronized intermittent preiodic ventilation (pSIMV+PSV and vSIMV+PSV)

##### Spontaneous breath (Spont)

##### Manual ventilation (Manual)

#### Parameters on the integrated monitor screen

Pressure (P), PEEP, Tidal volume, ventilation frequency, FinO<sub>2</sub>, Fin Xe

#### Parameters on the patient monitor screen (additional kitting)

- Arterial blood oxygenation (SpO<sub>2</sub>)
- Pulse rate (PR)
- Heart rate (HR)
- Respiratory rate (RR)
- Concentration of N<sub>2</sub>O at inspiration and expiration
- Concentration of liquid anesthetics vapors at inspiration and expiration
- Minimum alveolar concentration of liquid anesthetic vapors (MAK)
- Content of CO<sub>2</sub> at inspiration and expiration
- Arterial pressure, non-invasive (NIBP: SYS/DIA/Mean)
- Temperature of patient's body (T)

