

# Depth of anesthesia and sedation monitor MGA-06



Depth of anesthesia and sedation monitor MGA-06 is a monitor assessing depth of anesthesia and designed to improve patient safety through long and continuous monitoring of the Brain Activity Index (AI).

The algorithm of EEG analysis includes statistical information on typical signs of various groups of anesthetics' impact on the patient's EEG. In the analysis processing, the degrees of EEG correspondence to each type of suppression are determined. Taking these degrees into account allows to calculate the final indicator – the brain activity index (AI).

The purpose of using the technology is an objective evaluation of patient sedation for more precise anesthetic dosage by which anesthesia awareness can practically be avoided and recovery time can be reduced.

#### Application:

- anesthesiology, including perioperative period
- resuscitation
- intensive care
- procedural sedation

#### Basic universal ventilation:

- 5" TFT touchscreen
- all patient groups
- bispectral EEG analysis
- operates with inhalation and intravenous anesthetics

## Technical specification

Display	Touch screen TFT-display, 5"
Alarms	Visual and audible
Mains supply	100–240 V, 50/60 Hz
Built-in battery	2000 mA•h, Ni-Mh, up to 2 h of operation
Trends	AI (Brain Activity Index) EMG (Electromyographic component level) 72 hours
Dimensions	150 x 140 x 105 mm
Weight	0.8 kg
Working surface	The device is portable and it can be placed on working surface or suspended and fixed at any surface near patient
Connection	Wi-Fi
Patient Information record	Name, age, gender, weight, height, date of admission, diagnosis at admission, clinical diagnosis, notes
Recommended types of electrodes	31.1245.21, 24 mm, Covidien LLC, USA; F9079/RU3236-100, FIAB SpA, Italy; White Sensor 40713, Ambu A/S, Denmark; MK-01/-02/-03, Medker Medical Electronic Tech Co, China

## Advantages

AI	Brain Activity Index	reflects the degree of depression of consciousness by analyzing the EEG taking into account information about typical signs of anesthetic effects on patients
SR	EEG Signal Suppression Rate	reflects the suppression of EEG activity and determines level of the further deepening of anesthesia
SQL	EEG Signal Quality Index	indicates the influence of cable electrodes impedance, artifacts, high-frequency noise, power mains disturbances
EMG	Electromyographic Component Level	electrical activity of facial muscles

## Start-up delivery set / Quantity, pcs.

Electronic unit	1
Depth of Anesthesia and Sedation Module	1
Power adapter	1
Electrodes, single use	1 pack (100 pcs)

## Options

MGA Module compatible with BIS type EEG electrodes	TESN 626002-04
MGA Module compatible with GE-Entropy type EEG electrodes	TESN 626002-02
MGA Module compatible with any types of single use EEG electrodes	TESN 626001-03

## Interpretation of AI Brain Activity Index data

Meaning AI	Classical stages of ether anesthesia	Clinical manifestations
90–100	Staying awake	
80–90	Stage I anesthesia — light sedation	Incomplete wakefulness, opens eyes and holds visual contact in response to a voice within 10 seconds or less
60–80	Stage II anesthesia — sedation	Movement and opening of the eyes to the voice, but the gaze does not fix — the absence of eye contact, or there is no response to the voice, but the movements or opening of the eyes to physical stimulation are preserved.
40–60	Stage III anesthesia — surgery is possible	No response to voice or physical stimuli
30–40	Stage IV anesthesia — deep anesthesia, the appearance of BS patterns (flash suppression)	
20–30	Stage V anesthesia is a deepening of anesthesia compared to stage IV, the duration of episodes of suppression is up to 10 seconds.	
10–20	Stage VI of anesthesia is a deepening of anesthesia compared to stage V, the duration of episodes of suppression is usually more than 10 seconds.	
0–10	Stage VII, very deep anaesthesia, suppression episodes amounts to 75 % and more from all signal duration	

## Contacts

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