



# MODEL M8<sup>ARGOS</sup>

## Modular Vital Signs Monitoring System



**"Viewbed Screen" Mode**  
One monitor's waveforms and measured values can be viewed from another monitor by simple LAN connection

### Key Features

- 12.1" Color TFT display, 8 waveforms
- Arrhythmia analysis, multi-lead S-T segment analysis and pace maker detection
- 40-second full-disclosure waveform review
- Maximum 4-channel IBP
- Mainstream / Sidestream EtCO<sub>2</sub>
- Networked monitoring



**4-Channel IBP**  
Maximum 4-channel IBP for various clinical needs



**Multi-Gas Measuring**  
To measure the concentration of EtCO<sub>2</sub>, N<sub>2</sub>O, O<sub>2</sub> and other five anesthesia gases, including Des, Enf, Sev, Hal, Iso



**"Trend Screen" Mode**  
To display the trend data along with the waveforms and measured values (Trend time length: 2 hours)



# MODEL M8 ARGOS

## Modular Vital Signs Monitoring System

### Technical specifications

#### Safety

Meet the requirements of IEC60601 serials, CE marking according to MDD93/42/EEC

#### Dimension and Weight

Dimension: 340mm (W) x 120mm (H) x 250mm (D)  
Module: 40mm (W) x 100mm (H) x 155mm (D)  
Weight: 7.3kg (Main unit with ECG, SpO<sub>2</sub>, NIBP, Recorder)

#### Operation Environment

Power: AC100-240V, 50/60 Hz  
Temperature: 0-40°C  
Humidity: 15-95% (non-condensing)

#### Patient Range

Adult, pediatric and neonatal

#### Performance Specifications

Display: 12.1" color TFT  
Resolution: 800x600  
Trace: 8 waveforms  
Sweep speed: 6.25mm/s, 12.5mm/s, 25mm/s, 50mm/s

Indicator: Alarm indicator  
Power indicator  
QRS beep and alarm sound  
Interface: Net Port  
Trend time: 1-72 hours  
Alarm: 3-level audible and visual alarm can be connected to Mediaid central station system  
Networking:

#### ECG+RESP+DualTEMP MODULE

##### ECG

5-lead or 3-lead selectable

Input: 5-lead: RA; LA; RL; LL; V or R; L; N; F; C  
3-lead: RA; LA; LL or R; L; F  
5-lead: I; II; III; avR; avL; avF; V(n)  
3-lead: I; II; III

ECG waveform: 2 channels  
Gain selection: x0.25; x0.5; x1; x2(mm/mV); auto  
Sweep speed: 12.5mm/s, 25mm/s, 50mm/s  
Heart Rate range: Adult: 15-300bpm;  
Pediatric/Neonatal: 15-350bpm

Accuracy:  $\pm 1$ bpm or  $\pm 1\%$ , whichever is greater  
Protection: Withstand 4000VAC voltage in isolation. Against electrosurgical interference and defibrillation

CMRR: Diagnostic mode: >90dB  
Monitoring mode: >105dB  
Operating mode: >105dB  
Operation modes: Diagnostic, Monitor, Surgery  
Bandwidth: 0.05-100Hz  
Alarm range: Adult: 15-300bpm  
Pediatric/Neonatal: 15-350bpm

S-T detection: YES  
Measurement range: -2.0mV~2.0mV  
Alarm range: -2.0mV~2.0mV  
Arrhythmia analysis: YES  
Pace Detection: YES  
Alarm: YES, audible and visual alarm, Alarm events Recallable

#### Respiration

Method: RA-LL impedance  
Measurement range: Adult: 0-120rpm  
Pediatric/Neonatal: 0-150rpm

Accuracy: 7-150rpm:  $\pm 2$  rpm or  $\pm 2\%$ , whichever is greater  
0-6rpm unspecified  
Alarm range: Adult: 0-120rpm  
Pediatric/Neonatal: 0-150rpm  
Apnea alarm: YES

#### Temperature

Measurement range: 0-50°C  
Resolution: 0.1°C  
Accuracy:  $\pm 0.1$ °C (not including probe)  
Channel: Dual-channel  
Alarm range: 0-50°C

#### NIBP MODULE

Method: Oscillometric  
Operation modes: Manual/Automatic/STAT  
Measurement unit: mmHg/kPa selectable  
Measurement types: Systolic, Diastolic, Mean  
Measurement range: Adult: 10-270mmHg  
Pediatric: 10-200mmHg  
Neonatal: 10-135mmHg

Over-pressure protection: YES  
Resolution: 1mmHg  
Accuracy: Mean error and standard deviation perANSI/AAMI SP-10  
Systolic, Diastolic, Mean

#### SpO<sub>2</sub> MODULE

Measurement range: 0-100%  
Resolution: 1%  
Accuracy: 70-100%  $\pm 2\%$ ;  
0-69% unspecified  
Alarm range: 0-100%  
Pulse rate  
Range: 0-254bpm  
Resolution: 1bpm  
Accuracy: Pediatric & Adult  $\pm 2$ bpm (30-250bpm)  
Neonate  $\pm 3$ bpm (30-250bpm)  
Alarm range: 0-254bpm

#### Masimo SET SpO<sub>2</sub> MODULE

Measurement range: 1-100%  
SpO<sub>2</sub> accuracy: No motion conditions Adult/Pediatric: 70%-100%  $\pm 2\%$ ; 0-69% unspecified  
Neonate: 70%-100%  $\pm 3\%$ ;  
0-69% unspecified  
During motion conditions 70%-100%  $\pm 3\%$ ; 0-69% unspecified  
Low perfusion performance: Pulse amplitude: > 0.02%  
Light transmissivity: > 5%  
SpO<sub>2</sub> accuracy:  $\pm 2\%$   
PR accuracy:  $\pm 3$  bpm  
Range 25-250 bpm  
In static condition:  $\pm 3$  bpm  
In motion condition:  $\pm 5$  bpm

#### DUAL-IBP MODULE

Measurement range: -50~300mmHg  
Channel: 2 channels  
Pressure transducer: Sensitivity: 5 mV/V/mmHg  
Impedance range: 300-3000rpm  
Transducer sites: ART, PA, CVP, RAP, LAP, ICP  
Measurement unit: mmHg/kPa selectable  
Resolution: 1mmHg  
Accuracy:  $\pm 1$ mmHg or  $\pm 2\%$ , whichever is greater  
Alarm range: -50~300mmHg

#### CO MODULE

Method: Thermodilution  
Measurement range: CO: 0.1-20lit./min.  
23-43°C  
TI: CO: 0.1 lit./min.  
-1-27°C  
Resolution: CO: 0.1 lit./min.  
Temperature:  $\pm 0.1$ °C  
Accuracy: CO:  $\pm 2\%$  or  $\pm 0.1$ L/min  
TI:  $\pm 0.1$ °C

#### EtCO<sub>2</sub> MODULE

Method: Infrared Absorption  
Measurement Mode: Sidestream or Mainstream (optional)  
Measurement range: EtCO<sub>2</sub>: 0-99mmHg  
InsCO<sub>2</sub>: 0-99mmHg  
0-150rpm (Mainstream)  
0-120rpm (Sidestream)  
Resolution: EtCO<sub>2</sub>: 1mmHg  
InsCO<sub>2</sub>: 1mmHg  
AwRR: 1rpm  
Accuracy: CO<sub>2</sub> concentration:  $\pm 2$ mmHg (0-40mmHg)  
 $\pm 5\%$  of reading (41-76mmHg)  
 $\pm 10\%$  of reading (77-99mmHg)  
 $\pm 2$ rpm (Mainstream)  
 $\pm 2$ rpm (0-70rpm) (Sidestream)  
 $\pm 5$ rpm (>70rpm) (Sidestream)  
Alarm range: Same as Measurement range  
Apnea alarm: YES

#### Muti-Gas/O<sub>2</sub> MODULE

Method: Infrared Absorption  
Gas sorts: EtCO<sub>2</sub>, N<sub>2</sub>O, Des, Iso, Enf, Sev, Hal O<sub>2</sub> (optional, Paramagnetic sensor)  
Measurement range: EtCO<sub>2</sub>: 0-10% (0~76mmHg)  
N<sub>2</sub>O: 0~100%  
O<sub>2</sub>: 0~100%  
Enf, Iso, Hal: 0~5%  
Sev: 0~8%  
Des: 0~18%  
AwRR: 2-100rpm  
Resolution: CO<sub>2</sub>: 0.1% (1mmHg)  
N<sub>2</sub>O: 1%  
O<sub>2</sub>: 0.1% (1mmHg)  
Enf, Iso, Hal, Sev, Des: 0.01%  
1bpm  
Data output: Fi and Et Values  
Respiration rate: 2~100  $\pm 1$ bpm  
Other: Up to 3 waveforms displayed  
Agent mixture detection  
MAC value displayed

#### RECORDER MODULE

Thermal array, 2 channels  
Record width: 48mm, (record paper 50mm)  
Record speed: 25mm/s, 50mm/s

Standard configurations: Main unit, 12.1" TFT display with operating panel

Optional configurations: ECG+RESP+DualTEMP, NIBP, SpO<sub>2</sub>, 2xDUAL-IBP, CO, EtCO<sub>2</sub>, Multi-Gas/O<sub>2</sub>, Operating module, Thermal Recorder

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