Intra-Aortic Balloon Pump

GETINGE MAQUET DATASCOPE CS300

ABOUT

The **Getinge Maquet Datascope CS300** IABP with IntelliSense combines fiber-optic speed with automatic in vivo calibration. The result is a faster time for therapy, faster signal acquisition, and faster adaptation to rate and rhythm changes. Maquet has the only fiber-optic IABP and catheter system that automatically calibrates in the patient after insertion and automatically recalibrates in vivo every two hours or sooner should the patient or environmental conditions change.

FEATURES

Faster inflation and deflation speed

CS300 has true one-button start-up

Automatically calibrates the fiber-optic pressure sensor in the patient and recalibrates every 2 hours or sooner should patient or environmental conditions change

Automatically evaluates and selects the best lead and trigger source

Automatically sets optimal timing

Automatically adjusts to changes in patient conditions without clinician intervention

A Maquet fiber-optic IAB catheter

Conventional fluid-filled IAB catheters

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SPECIFICATIONS

DIMENSIONS

Size on Cart: 43.1" H x 22.3" D x 16.8" W (109 cm H x 56.6 cm D x 42.7 cm W)

Size off Cart: 26.9" H x 20.5" D x 10.8" W (68.3 cm H x 52.1 cm D x 27.4 cm W)

Console Weight: 84.8 lbs. (38.4 Kg) nominal (includes S.D., CRM, and He tank)

Monitor: 9.5 lbs. (4.3 Kg) nominal

Hospital Cart Weight: 52.4 lbs. (23.8 Kg) nominal

Internal Battery: 34 lbs. (15.4 Kg) nominal

Storage Bag: 4.6 lbs. (2.1 Kg) nominal (includes doppler and doppler holder))

COLOR DISPLAY

Color TFT Liquid Crystal Display (LCD) 8.3"(21cm) W x 6.2"(15.8cm)H; up 45°, 10.4" diagonal (26.4 cm) down 55°, right 70°, left 70° viewing angle; Rotates 330°; Tilts 180°; Detachable; Laptop-like closure for storage and protection; Remote monitor mount (optional)

TRIGGER

ECG Trigger: Threshold dynamically adjusted by the system for high sensitivity and selectivity of the R-wave detection; Minimum = 120µV ± 20µV at a normal gain; 40µV at max. gain

Pressure Trigger: The default trigger threshold is automatically adjusted to 38% of the systolic pulse height; 7 mm minimum

Manual threshold mode: User-adjustable between 7 and 30 mmHg ± 3 mmHg

Pacer A Trigger: R-wave detection (as above) except pacer blanking is extended to 100 ms

Pacer V/A-V Trigger: V Pacer: fixed at a rate up to 185 bpm (no demand pacing)

A-V Pacer: fixed at a rate up to 125 bpm (no demand pacing) with A-V intervals between 80-224 ms

POWER

Mains Voltage: 100-120 VAC ± 10% or 220-240 VAC ± 10%

Mains Frequency: 50/60 Hz ± 3 Hz

Internal Battery: 24 VDC (nominal), 17.2 Amp-hour, approx. 3 hrs. @ 90 bpm

Battery Type: Maintenance-free; Sealed lead-acid

PRESSURE

Pressure Output: (electrically isolated)

Pressure Range: 0 to +300 mmHg (minimum)

OPERATION

Op. Temp.: 10°C – 40°C

Op. Humidity: 5 – 95% (R.H.) non-condensing

Op. Altitude: 0 – 12,000 feet (3,657 m); automatic altitude correction for IAB pressure

ECG

ECG Leads: In Auto Operation Mode: I, II, III, External In Semi-Auto Mode: I, II, III, AVR, AVL, AVF, V, External (12 lead compatibility)

ECG Gain (default): 1 V output per 1 mV input ±5% (waveform automatically scaled to occupy ECG display window)

Gain (variable): 0.15 to 3.0 cm/mV ±20% (autoscaling disabled)

Frequency Response: 0.5-12 Hz (display); 0.5-135 Hz (Output to External Monitor)

Defibrillator Protection: Discharge level = 360 J (trace returns to the screen in 5-sec max)

ESIS: Automatic suppression with internal ECG amplifier