Datascope® System 98/98XT IABP

Features:
- Advanced Pneumatic Performance
- Improved Arrhythmia Management
- Largest, Brightest Display of Any Datascope Pump
- Operator Convenience Features

Specifications

**EL Display**
8.3” (21.1 cm)W x 6.2” (15.8 cm)H; 160° viewing angle; Rotates 330°; Tilts 180°; Detachable; Laptop-like closure for storage and protection; Remote monitor mount (optional)

**Preferences Menu**
User may select display sweep speed (25 or 50 mm/sec), brightness (low, med., high); balloon waveform (on/off); ECG inflation markers (on/off); AP waveform auto-scaling (on/off); flashing alarms (on/off)

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

**Pressure Trigger**
*In automatic mode:* adjusted to 50% of the difference between peak systolic and end diastolic (avg. over multiple cycles); *In variable mode:* User adjustable between 7 and 30 mmHg ± 3 mmHg.

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

**Pacer V/A-V Trigger**
*V Pacer:* fixed at rate up to 185 bpm (no demand pacing) *A-V Pacer:* fixed at ate up to 125 bpm (no demand pacing) with A-V intervals between 80-224 ms.

**Internal Trigger**
*Variable mode:* 40-120 bpm; *Normal mode:* 80 ± 1 bpm

**Tall T-Wave Rejection**
*(ECG and Pacer A mode)* Rejects all T-Waves where Q-T interval is <300 ms and the amplitude is <70% of QRS input amplitude

**Pacer Rejection**
*(ECG and Pacer A mode)* Rejects all pulses of amplitude ± 2.0 mV to ± 700 mV and durations between 0.1 ms to 2.0 ms with: 1) No tail; 2) 100 ms time constant tail < 1 mV; 3) 25 ms time constant tail < 1 mV; 4) 4 ms time constant tail < 2 mV

**ECG Leads**
I, II, III, AVR, AVL, AVF, V (12 lead compatibility) On-keypad switch between direct leads and external monitor

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

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

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

**Defibrillator Protection**
Discharge levels ≤360 J (trace returns to screen in 2 sec. max)

**ESIS**
Automatic suppression with internal ECG amplifier

**AP Source Selection**
On-keypad switch (transducer/external)

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AP Input Sensitivity 5.0µV/V/mm Hg
Excitation +5 VDC ± 5% @ 130 mA (max)
Frequency Response 0.5 to 12 Hz (-3 dB max atten.)
Timing Modes Automatic (R-Trac ON or OFF); Manual
ECG Connector 6-pin 5-lead AAMI standard
Pressure Connector 6-pin AAMI standard
External Mon. Inputs: ECG: 1 V/mV (nominal); AP: 1 V/100 mm Hg (nominal)
ECG/BP Output Phone Jack: ECG 1V / 1 mV, BP 1V/100 mm Hg
Mains Voltage/Freq 100-120 VAC ± 10% or 220-240 VAC ± 10% ; 50/60 Hz ± 3 Hz
Internal Battery 24 VDC (nominal), 17.2 Amp-hour, 2.25 hrs. (min. @ 120 bpm)
Type Maintenance free; Sealed lead-acid
System Compressor Dual head diaphragm pump with brushless DC motor
IAB Helium (He+) Medical-grade; 0.5 L (2900 psi) or 0.69 L (2200 psi)
He+ Endurance (nom.) 1.8 mo. (.5 L); 2 mo. (0.69 L): continuous operation - 24 hrs./day
Condensate Removal Fully automatic condensate removal and disposal
PC-IABP (optional) Software for remote clinical assistance and training
Service Diagnostics Built-in software for system analysis and troubleshooting
Modem Data Rate Up to 9,600 baud
Modem Certifications Registered with FCC and accepted in ≥89 countries
Size on Cart 43.3"H x 16.8"W x 22.3"D (109 cm x 42.7 cm x 56.6 cm)
Size off Cart 26.9"H x 10.8"W x 20.5"D (68.3 cm x 27.4 cm x 52.1 cm)
Console Weight 76.8 lbs.(34.8 Kg)
Monitor 9.45 lbs. (4.3 Kg)
Hospital Cart Weight 61.0 lbs.(27.7 Kg)
Internal Battery 34 lbs. (15.4 Kg)
UTS Version Rugged base which attaches to docking station (DS)
Lightweight DS 7.8"(45.1 cm) x 20.0" (50.8 cm) (Optional)
Basic DS 21.5"(54.6 cm) x 21.5"(54.6 cm)
Ext Battery 24 VDC (nominal), 17.2 Amp- hour, 1.8 hrs. (min. @ 120 bpm) (Optional)
Aux. DC Input 20.5-35.0 VDC
Shock and Vibration ECRI AIII.3.1, 3.2.2, 3.3, 3.4 Mil Std 810E method 514.4, Cat. I; RTCA DO-160C, 1989, Section B, Curve N
Op. Temp. 10°C - 40°C
Op. Humidity 5 - 95% (R.H.) non-condensing
Op. Altitude Up to 12,000 feet (3,657 m); automatic altitude correction for IAB pressure
Printer Type Thermal array - 50 mm wide
Printer Menu On-screen selection of waveforms; strip length; timed print; print on alarm; trend data; and alarm/trigger log
Waveforms (any 1 or 2) ECG (lead number & size labeled), arterial pressure, BPW
Event Markers Trigger pulse (upper), inflation interval
Trend Graphs ≤8 hrs of heart rate; peak systolic, end diastolic, mean, augmented diastolic
Additional Data Space for patient I.D.; Date; Time; Alarm and Advisory messages; Timing mode; Trigger; HR, Frequency; Syst/Dias (in 1:1); Assisted and Unassisted Syst/Dias (in 1:2 or 1:3); Augmented Pressure; Mean
Doppler 8 MHZ non-directional probe
Saline Pole Height adjustable
Simulator* Emulates ventricular rhythms; Pacers; HR; A-fib
Remote Mount* Mounts keypad/monitor on bypass pump
Storage Case* 3-pocket design holds cables and spare items
Pump Cover* Padded vinyl with pocket

* (optional)

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