

Specifications:



i. Computer

CPU: Pentium class or equivalent.
 Weight: <=28 kg,
 incl. isolation transformer
 Specifications: variable, available on request
 Power Source: 110VAC / 220-240VAC / 3.0A(max),
 via 400VA isolation transformer
 O/S Software: Non-windows RTOS

ii. Stimulus Generator - overall

Main power source: 120VAC or 220-240VAC to 14.5 VDC,
 750mA Extra Low Voltage Transformer
 Backup power: 12V 2.1Ah lead acid
 Emergency power: 9V LiMnO₂ PP3, 10y life
 Weight: 8.5 kg including batteries
 Dimensions: 31.5cm x 34.0 cm x 9.5cm
 Power Consumption: 800 mA during operation
 40 mA in standby mode
 Operating Time: Indefinite with mains connected
 Two(2) hours on backup battery

iii. Pacing Channels

Isolated Channels(3): (i) Atrial and (ii) Ventricular via green
 Redel 4 pin socket
 (iii) Emergency Fixed Pace Output to
 Ventricle, via red Redel 4 pin socket
 Power Source: Internal DC-DC converters
 Circuit Isolation: Compliant with AS3200 /IEC601,
 5kV, common, differential modes

iv. Computer Controlled Stimulus Pulses

Current: 0.1 to 25 mA
 Current Steps: 0.1 mA
 Accuracy: ± 2% or ± 0.2 mA, which ever is greater
 Pulse Duration: 0.5 ms, 1-10 ms in steps of 1ms
 Accuracy: ± 0.15 ms
 Load Impedance: 700 Ω max, for max current
 Max Output Voltage: 27V

v. Inter-stimulus Intervals

S1 Range: 180 - 9990 ms(Pace)
 30 - 9990 ms (Burst Pace)
 Stability: Quartz computer clock,
 ± 30 ppm @ 25° C
 Extra-Stimuli: 6 max, S2-S7, independent
 Coupling interval: 30 - 9990 ms,
 Accuracy: ± 1 ms or 0.1% whichever is greater

vi. Pre-programmed Protocols

- ◆ Stimulation Threshold
- ◆ Anterograde/Retrograde
- ◆ SN Recovery Times
- ◆ SN Conduction Times
- ◆ His-coincident extras
- ◆ Overdrive Pacing
- ◆ AICD-type ATP
- ◆ Wenckebach Periods
- ◆ Programmed V Stimulation
- ◆ Burst Pacing (to 30ms)
- ◆ Auto-decremental Pacing
- ◆ AV sequential Pacing
- ◆ Combined AV drive-train
- ◆ AF/VF induction

vii. Protocol Automation

- ◆ Auto decrement / increment: S1, S2-S7, stimulation current
- ◆ SNRT S1 intervals and RT calculation
- ◆ Auto pace and sense - site selection in protocols
- ◆ His-coincident extra-stimulus timing calculation
- ◆ ATP S1 calculation from % of TCL
- ◆ Trigger output on sensed ectopic beats
- ◆ All automation subject to instant operator adjustment

Distributed by:

viii. Backup Manually Controlled Stimulation

Power Source: 12V 2.1Ah lead acid battery
 Pulse Current: 0.1 to 25mA
 Accuracy: ± 2%, or ± 0.2mA which ever is greater
 Pulse Duration: 2ms, fixed
 Pulse Interval: 100 - 1400ms, accuracy:±1%

ix. ECG Sense/Trigger

High level external -
 Two inputs: (i) Ext_ECG1, (ii) Ext_ECG2,
 Connector: 15 pin D plug / 6.5mm Phono
 Input Ranges: 1.6V and 2V
 Maximum Input: 2V AC pk - pk
 Frequency Range: 0.2 to 30 Hz, typical
 Pacing catheter tip -
 Two channels: (i) Atrial, (ii) Ventricular
 Input ranges: 2mV to 36mV, 4 gains
 Frequency Range: 30 to 250 Hz, typical
 Either Source -
 Threshold: Automatic hardware peak detect
 Lockout Period: 50 - 1000ms in software
 Pace Sync Delay: 50 - 5000ms in software
 Sampling- display: 250Hz, 8 bit

x. Auxiliary Sync Inputs/Outputs

Three Sync Outputs: 15 pin D socket
 Sync1 & Sync2: also have 6.5 mm Phono sockets
 Sync1 & 2 timing: On any drive train pulse, on halt of
 pacing, on extra in R-synced S2
 Pulse: +5V CMOS level, 50 ms duration
 Sync3 timing: on every pulse
 Pulse: +5V CMOS level, 20ms duration
 Two Sync Inputs: 15 pin D socket
 Function: Programmable to trigger pacing
 Amplitude: +5V CMOS level, 10ms min.

xi. Emergency Backup Pacing

Power Source: 9V Lithium Manganese PP3 battery, 10
 years life
 Pacing Pulse: 5mA ±1.0 mA, 2ms ±0.5ms, 100 ppm
 Pace output: Separate red 4 pin connector
 Control: Pacing activated by connection of a load
 <1MΩ, i.e. insertion of plug connected to
 patient

xii. Certification

MDD Annex III and Annex V
 IEC601-1-1,-2,-4 certified
 EMC compliance certified
 CE Marking certified

Notes: 1. Specifications may change without notice
 2. Computer manufacturer and specifications will vary according
 to availability



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