External Pulse Generator

Dual-Chamber (DDD)

Model 3085

Product Highlights

- Designed for safe and reliable temporary stimulation of the heart in cases of rhythm disturbances and conduction defects, and/or perioperative temporary heart stimulation.
- An extensive dual-chamber feature set including:
  - A full array of mode choices, including a special DDD + AT mode specifically available for bi-atrial stimulation to help avoid atrial fibrillation
  - Atrial auto-sensing for automatic adjustment of sensitivity
  - Completely adjustable stimulation parameters (voltage and pulse width)
  - A wide base rate range of 30-220 ppm for appropriate pacing support for all therapy needs, including those of pediatric patients
  - A max tracking rate of 80-230 ppm for maintaining AV synchrony
  - A PV delay offset for supporting maximum cardiac output
  - Extended PVARP for prevention of retrograde tachycardia
  - Crosstalk protection to aid in preventing far-field sensing, which can result in asystole
- Continuous, independent atrial and ventricular lead surveillance and an audible warning in the event of lead malfunction
- Rapid atrial pacing rates (up to 1000 ppm) are available for pace-termination of atrial tachycardia

Ordering Information

Contents: External pulse generator

Model Number	Dimensions (H x W x T, cm)	Weight (g)	Battery
3085	20 x 9,6 x 3,8	490 (includes battery)	Battery 9 V, alkaline or lithium

Indications for Use: The Model 3085 external pulse generator/temporary pacemaker is designed to be used with cardiac stimulation lead systems for temporary atrial, ventricular or A V sequential stimulation. The Model 3085 has applications where such stimulation modes are indicated for therapeutic, rophylactic, or diagnostic purposes. Specific indications include, but are not limited to, the following:

Sick sinus syndrome; Bradycardia with congestive heart failure; Complete heart block; Acute myocardial infarction complicated with heart block; Sinus bradycardia; Cardiac arrest with ventricular systole; Atrial and/or ventricular ectopic arrhythmia; Postoperatively after cardiac surgery; Temporary application during implantation or exchange of a permanent pacemaker. Indication for atrial overdrive stimulation: Supraventricular tachycardia.

Contraindications: There are no contraindications with regards to the use of the Model 3085 for temporary cardiac stimulation for therapy and prevention of arrhythmia. The state of health of the patient, however, can restrict the choice of operational mode and stimulation parameters. For example, a mode of operation with atrial sensing is not suitable or appropriate when atrial fibrillation occurs. This is due to excessive and chaotic frequency of detected fibrillation waves. Overdrive-stimulation therapy must only be used in the atrium. Overdrive-stimulation in the ventricle could cause life threatening ventricular fibrillation

Customer Support: 46-8-474-4756

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use. Devices depicted may not be available in all countries. Check with your St. Jude Medical representative for product availability in your country. Unless otherwise noted, ™ indicates that the name is a trademark of, or licensed to, St. Jude Medical or one of its subsidiaries. ST. JUDE MEDICAL, the nine-squares symbol and MORE CONTROL. LESS RISK. are registered and unregistered trademarks and service marks of St. Jude Medical, Inc. and its related companies.
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Product Specifications

PHYSICAL SPECIFICATIONS

Model	3085
Battery	Standard 9 V, alkaline or lithium
Battery Life Alkaline	Minimal 10 days (VVI, standard parameters), Minimal 8 days (DDD, standard parameters) Plus 1 day reserve after the first appearance of the battery change message
Battery Life Lithium	Minimal 19 days (VVI, standard parameters) Minimal 15 days (DDD, standard parameters) Plus 1 day reserve after the first appearance of the battery change message
Weight (g)	Approximately 490 (including battery)
Size (cm)	20 x 9,6 x 3,8 (7,75 in. x 4 in. x 1,5 in.)

PARAMETER SETTINGS

Technology

Modes	DDD, DDD + AT, DOO, DAT, DVI, DAI, VVI, VOO, VAT, AAI, AOO, AAT, VDD
Base Pacing Rates (ppm)	30-220
Upper Pacing Rates (MTR) (ppm)	80-230
Rapid Atrial Pacing Rates (ppm)	70-1000
AV Delay (ms)	5-400 (minimum 30 ms when atrial Auto Sense is activated)
PV Delay (ms)	AV delay-30 (minimum 5 ms when atrial Auto Sense is not activated, minimum 30 when atrial Auto Sense is activated)
Pulse Duration (ms)	0,05-1,50
Pulse Amplitude (V)	0,1-18
Atrial Sensitivity (mV)	0,2-20
Ventricular Sensitivity (mV)	1,0-20
Blanking Period (ms)	85 (atrial & ventricular), 55 (ventricular after atrial pacing)
Atrial Refractory Period (ms)	250 … 400 ms ± 5% (AAI, AAT), A-V interval plus PVARP (DDD, VDD, DAI, VAT, DAT)
PVARP (ms)	100-500 (absolute: 90 ms, relative: 90 ms)
Ventricular Refractory Period (ms)	250
Extended PVARP (After PVC) (ms)	500
Crosstalk Detection Window (ms)	40
Emergency Mode	V00 (A00), 80 ppm, 12 V or set value when higher, 0,75 ms (1,00 ms) or set value when longer
Runaway Protection (ppm)	235

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