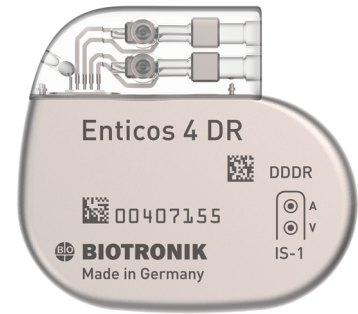


Enticos 4 DR

Dual-chamber pacemaker



Ordering Information

Model	Connectors	Volume/weight	Dimensions	Order number
Enticos 4 DR	IS-1 (2x)	11 cm ³ /23.2 g	48 mm × 44 mm × 6.5 mm	407155

Product Highlights

Small size

Improves the patients' comfort through a reduced device volume.

Capture Control (RA & RV)

Improves patient safety and extends device longevity by automatically adjusting the pacing amplitudes.

IRS^{plus} with 400 ms AV hysteresis

Avoids unnecessary ventricular pacing to minimize associated risks such as AF and HF hospitalization.

AutoSensing

Ensures optimal pacing behavior by automatically optimizing sensing settings.

Auto-initialization

Activates essential pacemaker functions and follow-up data within 10 minutes.

Quick follow-up with automaticity of all tests

Enticos 4 DR

Technical Data

Pacing parameters

NBG code	DDDR
Mode	DDDR; VVIR; AAIR; DDIR; A00; DDD; VI; AAI; DDI; A00R; VDD; VVT; AAT; VDI; V00; VDDR; VDIR; V00R; DVI; D00; DVIR; D00R; DDT; OFF

Basic rate/Night rate

• Basic rate	30 ... (5) ... 100 ... (10) ... 200 bpm
• Night rate	OFF; 30 ... (5) ... 100 ... (10) ... 200 bpm
• Hysteresis	OFF; -5 ... (-5) ... -25 ... (-20) ... -65 bpm
• Repetitive/Scan cycles	OFF; ON (if Hysteresis was selected)
Pulse amplitude [A/V]	0.2 ... (0.2) ... 6.0 ... (0.5) ... 7.5 V
Pulse width [A/V]	0.1 ... (0.1) ... 0.5 ... (0.25) ... 1.5 ms
Sensitivity atrium	AUTO; 0.1 ... (0.1) ... 1.5 ... (0.5) ... 7.5 mV
Sensitivity ventricle	AUTO; 0.5 ... (0.5) ... 7.5 mV

Pacing algorithm

Atrial capture control	OFF; ON; ATM
• Min. amplitude	0.5 ... (0.1) ... 4.8 V
• Threshold test start	2.4 ... (0.6) ... 4.8 V
• Safety margin	0.5 ... (0.1) ... 1.2 V
• Search type	<ul style="list-style-type: none"> • Interval • Time of day
• Interval	0.1; 0.3; 1; 3; 6; 12; 24 h
• Time of day	00:00 ... (00:10) ... 23:50
Ventricular capture control	OFF; ON; ATM
• Threshold test start	2.4 ... (0.6) ... 4.8 V
• Safety margin	0.3 ... (0.1) ... 1.2 V
• Search type	<ul style="list-style-type: none"> • Interval • Time of day
• Interval	0.1; 0.3; 1; 3; 6; 12; 24 h
• Time of day	00:00 ... (00:10) ... 23:50
Mode switching with X/Z-out-of-8 criterion	OFF; ON
• Intervention rate	100 ... (10) ... 250 bpm
• Onset criterion	3 ... (1) ... 8 out of 8
• Resolution criterion	3 ... (1) ... 8 out of 8
• Change of basic rate	OFF; +5 ... (5) ... +30 bpm
• Rate stabilization during mode switching	OFF; ON
• 2:1 Lock-in protection	OFF; ON
Atr. NIPS	Burst pacing; Programmed stimulation

Conventional rate adaptation

Sensor	Accelerometer
• Max. activity rate	80 ... (10) ... 180 bpm
• Sensor gain	AUTO; Very low; Low; Medium; High; Very high
• Sensor threshold	Very low; Low; Medium; High; Very high
• Rate increase	1; 2; 4; 8 bpm/cycle
• Rate decrease	0.1; 0.2; 0.5; 1.0 bpm/cycle
Sensor optimization	Original, preview

Timing intervals

AV delay	20 ... (5) ... 350 ms at 60 to 120 bpm; 20 ... (5) ... 300 ms at 140 bpm
AV dynamics	Low; Medium; High; Fixed
Sense compensation	OFF; -10 ... (-5) ... -120 ms
AV hysteresis mode	OFF; Negative; Positive; IRSpplus
AV hysteresis (positive)	70; 110; 150; 200 ms
AV hysteresis (negative)	10 ... (10) ... 150 ms
AV repetitive/scan cycles	If AV hysteresis mode = Positive: OFF; ON
Upper rate response	
• Ventricle	90 ... (10) ... 200 bpm
• Atrium	OFF; 175; 200; 240 bpm
Tachycardia behavior	2:1; WKB
• PVARP	175 ... (25) ... 600 ms
• PVARP after PVC	PVARP + 150 ms (max. 600 ms), automatically adjusted
• Ven. blanking after Ap	30 ... (5) ... 70 ms
• Far-field protection after Vs	100 ... (10) ... 220 ms
• Far-field protection after Vp	100 ... (10) ... 220 ms
• PMT protection	OFF; ON
• VA criterion	250 ... (25) ... 500 ms

Leads

Automatic lead check (A/V)	ON; OFF
Lead configuration (A/V)	Unipolar; bipolar
Auto-initialization	ON

Physical parameters

Service time	12 years, 4 months ¹⁾
Replacement indication	Programmed rate minus 11% (in DDD[R])
Electrically conductive surface	30 cm ²
X-ray identification	BIOTRONIK logo
¹⁾ at A/V: 2.5 V/0.4 ms, 60 bpm, 500 Ω; pacing: 50 %	

Additional parameters

Magnet response	AUTO [10 cycles at 90 bpm asynchronous; then basic rate synchronous]; asynchronous, synchronous
IEMG recording	4 recordings, max. 10 seconds each
Recording prior to event	0; 25; 50; 75; 100%