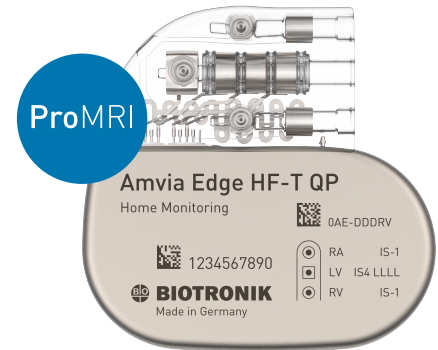


Amvia Edge HF-T QP

MR Conditional CRT-P



Ordering Information

Model	Connectors	Volume/Weight	Dimensions	Order number
Amvia Edge HF-T QP	IS-1 (2x), IS-4 (1x)	15 cm ³ /31.2 g	53 x 53 x 6.5 mm	460162

Product Highlights

LBBA Pacing	Atrial Anti-Tachycardia Pacing (aATP)	QuickCheck
20 vector quadripolar LV pacing	MRI Guard 24/7	EarlyCheck
Auto LV VectorOpt	BIOTRONIK Home Monitoring®	
CRT AutoAdapt		
Closed Loop Stimulation (CLS)		

Amvia Edge HF-T QP

Technical Data

MR Conditional	
ProMRI	For combination of MR Conditional devices, please see the manual "ProMRI MR Conditional device systems"
Closed Loop Stimulation	
CLS mode	DDD-CLS; VVI-CLS; DDI-CLS
Max. CLS rate	80 ... (10) ... 180 bpm
Expert parameters	
CLS response	Very low; Low; Medium; High; Very high
CLS resting rate control	OFF; +10 ... (10) ... +50 bpm
Vp required	Yes; No
Pacing Parameters	
NBD-NBG code	0AE-DDDRV
LBB(A) pacing	NO; YES
Mode	DDD-CLS; DDI-CLS; VVI-CLS; DDDR-ADIR; DDDR; DDIR; VVIR; AAIR; D00; DDD-ADI; DDD; DDI; VVI; AAI; V00; VDDR; VDIR; DDT; VDD; VDI; VVT; OFF
Basic rate	30 ... (5) ... 100 ... (10) ... 200 bpm
Night rate	OFF; 30 ... (5) ... 100 bpm
Rate hysteresis	OFF; +5 ... (-5) ... -25 ... (-20) ... -65 bpm
Scan/Repetitive	OFF; ON
Rate fading	OFF; ON
Mode switching	
Intervention rate	OFF; 100 ... (10) ... 250 bpm
Onset criterion	3 ... (1) ... 8 out of 8
Resolution criterion	3 ... (1) ... 8 out of 8
Mode switching expert parameters	
Change of basic rate	OFF; +5 ... (5) ... +30 bpm
Post ModeSw rate	OFF; +5 ... (5) ... +50 bpm
Post ModeSw duration	1 ... (1) ... 30 min
Rate stabilization during mode switching	OFF; ON
2:1 Lock-in protection	OFF; ON
Vp suppression	OFF; ON (programmable via the modes DDDR-ADIR and DDD-ADI)
Pacing suppression	1 ... (1) ... 8 consecutive Vs
Pacing support	1 ... (1) ... 4 out of 8 cycles
Pulse amplitude (A, RV, LV)	0.5 ... (0.25) ... 4.0 ... (0.5) ... 6.0; 7.5 V
Pulse width (A, RV, LV)	0.1 ... (0.1) ... 0.5 ... (0.25) ... 1.5 ms
Capture control (A, RV, LV)	OFF; ATM; ON
Sensing (A)	OFF; AUTO; 0.1 ... (0.1) ... 1.5 ... (0.5) ... 7.5 mV
Sensing (RV)	OFF; AUTO; 0.5 ... (0.5) ... 7.5 mV
Sensing (LV)	OFF; AUTO; 0.5 ... (0.5) ... 7.5 mV
AV delay	15...(5)...300 ms, fixed; 40...(5)...350 ms dynamic
AV dynamics	Low; Medium; High; Fixed
Sense compensation	OFF; +5 ... (-5) ... -120 ms
AV hysteresis mode	OFF; Positive; Negative
Arrhythmia Detection and Redection	
AT/AF detection	HAR limit; Stability
HAR limit	100 ... (10) ... 250 bpm
AT/AF counter	Detection counter: 36 out of 48; Termination counter: 20 out of 24
Atrial stability criterion	40 ms
HVR detection	HVR limit
HVR limit	4 ... (4) ... 20 ... (5) ... 60 Events

Tachycardia Therapy	
AT therapy	Burst; Ramp (Delivery only when atrial rhythm stability and lead positioning checks are met)
Atr. NIPS	Burst Pacing; Programmed Stimulation
PMT detection/termination	OFF; ON
Leads	
Automatic lead check (A, RV, LV)	ON; OFF
Lead configuration (A, RV, LV)	Unipolar; Bipolar
LV pacing polarity	20 vectors
MRI	
MRI mode	D00/BiV; V00/BiV; A00; D00; V00; AUTO
Basic rate	Mean rate + 15 bpm; 70 ... (5) ... 100 ... (10) ... 160 bpm
Timing Parameters	
Upper rate	90 ... (10) ... 200 bpm
Atrial upper rate	OFF; 175; 200; 240 bpm
Ventricular pacing	BiV; RV; LV
CRT AutoAdapt	OFF; AVAdapt; ON
Triggering	OFF; RVs; RVs+PVC
LV T-wave protection	OFF; ON
Maximum trigger rate	UTR + 20; 90 ... (10) ... 160 bpm
Initially paced chamber	RV; LV
VV delay after Vp	0 ... (5) ... 100 ms; 0 ... (5) ... 30 ms at any CLS mode
Atrial refractory period	AUTO (AV delay but at least 225 ms)
RV refractory period	200 ... (25) ... 500 ms
LV refractory period	200 ms
PVARP	AUTO; 175 ... (25) ... 600 ms
Blanking after atr. pacing RV	30 ... (5) ... 70 ms
Physical Parameters	
Service time	12 years, 1 month ¹⁾ ¹⁾ A/RV/LV: 2.5 V/0.4 ms, 60 bpm, 500 Ω; A: pacing: 10 %; RV: pacing: 50 %; LV: pacing: 100 %; Home Monitoring: OFF; QuickCheck: OFF, RF telemetry: OFF, CRT AutoAdapt: ON
Electrically conductive surface	33 cm ²
Additional Parameters	
Magnet response	AUTO (10 cycles asynchronous; then basic rate synchronous), asynchronous, synchronous
IEGM recording	22 recordings, at least 16 seconds each Total recording time approx. 6 minutes
Auto initialization	ON
Recording Episodes	
High atrial rate	OFF; ModeSw; AT
High ventricular rate	OFF; ON
For nsT	OFF; ON
Patient trigger	OFF; ON
Tests	
Different tests for	Impedance, Sensing, Pacing threshold, Retrograde conduction, AV optimization, LV VectorOpt
Program Sets	
Programs	Standard program; ProgramConsult; Individual program (1-3, individually programmable); First interrogated program; Safe program

BIOTRONIK Home Monitoring®

Transmitted Data	AF diagnostics, Heart Failure Monitor diagnostics, Detection and therapy counters, Statistics, Lead measurement values, Battery status, Program parameters, Threshold (A/RV/LV), Sensing amplitude (A/RV/LV), Pacing statistics, Arrhythmia statistics (A/RV/LV), CRT statistics
Event-based IEGM	HVR, Lead failure, AT/AF with therapy or monitoring, Patient triggered, Ongoing HVR (mean rate over 100 bpm in 24h), non-sustained Tachycardia
Message types	
Trend message	Triggered automatically once every 24 hours
Event message	Triggered automatically after certain cardiac events

Programmer Settings	
Home Monitoring	OFF; ON (ON by default)
Ongoing atrial episode	OFF; 6 h; 12 h; 18 h
Event-based IEGM	OFF; ON
QuickCheck	OFF; ON
Home Monitoring-supported follow-up	
Remote Scheduling	Enable; Disable
HM follow-up intervals/alignment	Individually programmable first date and repetition intervals varying from 20-366 days; Alignment with a specific day of the week; Only working days or no day alignment
QuickCheck	Can be requested at any time via the Home Monitoring Service Center
EarlyCheck	Automatic first Home Monitoring-supported follow-up 2 hours after implantation detection
Transmitted data	Periodic and Event-based IEGM; Rate histogram (V); Device settings and statistics
Please refer to the technical manual of the device for further technical information.	