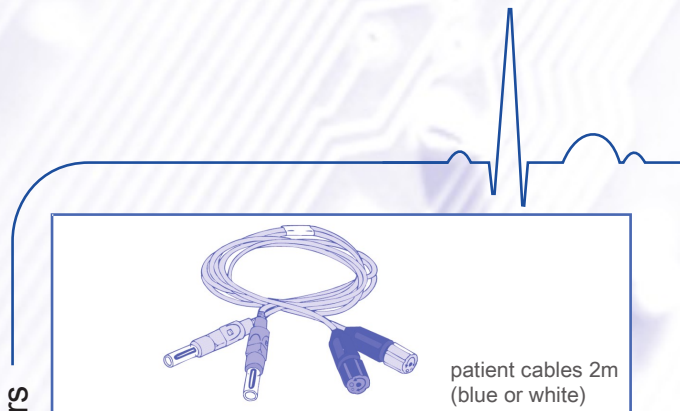




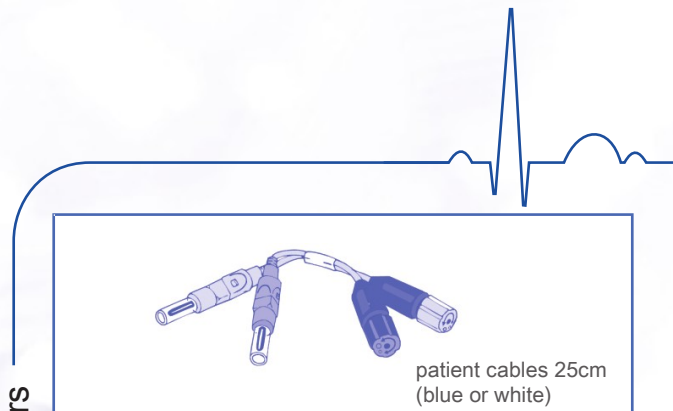
technical parameters Pace T20®
 amplitude 0.1 – 20 V / dual chamber
 pulse duration: atrium: 0.7 ms ventricle: 0.5 ms
 high rate: 1ms
 sensitivity atrium: 0.1 mV – 20 mV / ventricle: 1 mV – 20 mV
 pulse rate 30 – 250 ppm / high rate 40 – 1000 ppm
 presetting 400 ppm burst (8 pulses) or permanent stimulation backup (VVI, 40 ppm) stimulation at ventricle A
 emergency V00/10 V/80 ppm
 refractory time atrium 400 ms – 200 ms for AXX modes (depending on pulse rate)
 TARP for all dual-chamber modes
 refractory time ventricle 250 ms – 200 ms for VXX modes (depending on pulse rate) 225 ms – 175 ms for all dualchamber modes (depending on pulse rate)

AV-delay (AV-Dly) 15 ms – 300 ms
 automatic settings (depending on pulse rate) or manual
 automatic: 50 until 300 ms (min. 50 ms)
 manual: 15 until 300ms

PV-delay (PV-Dly) 15 ms – 250 ms (AV-Dly * 0.84)

PVARP 100 – 500 ms automatic settings (depending on pulse rate) or manual
 automatic: TARP - AV-Dly manual: 100 – 500ms

start mode selectable / storable
 weight: 365 grams



technical parameters Pace T10®
 see (single chamber) parameters of Pace T20® except:
 0.7 ms for AXX modes 0.5 ms for VXX modes
 refractory time atrium 400 ms – 300 ms for AXX modes (depending on pulse rate) / ventricle 250 ms for VXX modes, start mode selectable / storable
 weight: 285 grams

safety features Pace T10® & Pace T20®:
 run away protection, depending on pulse rate setting
 noise detection level 1 (display: noise warning): noise frequency > about 8.3 Hz (120ms) level 2 (change to a fixed-frequent stimulation): noise frequency > about 14 Hz
 warnings short-circuit, open electrode accesses high/low impedance, pulse rate (> 150 ppm) EOL (battery and backup battery) noise self test and system error

CE approval: class IIb products

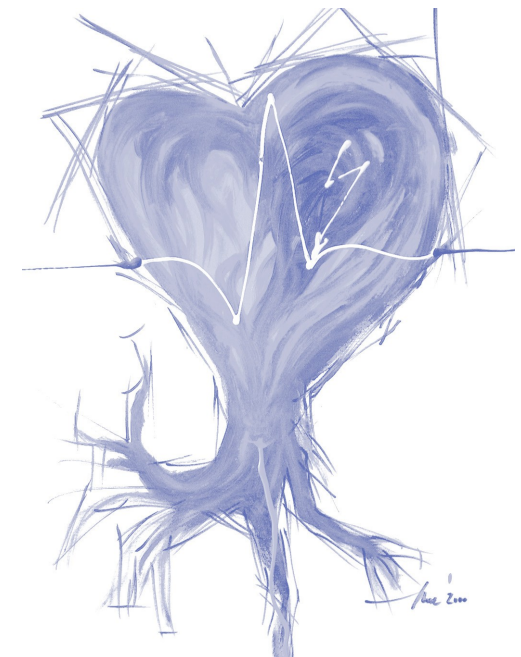
all products are made in Germany

:
 MSM AG
 Meisenweg 5
 75443 Oetisheim
 Germany
 www.msm-ag.info



livePACE © Pace T10 © Pace T20 ©

external
 temporary
 pacemakers





living technology for life

livePACE © | single or dual chamber external temporary pacemakers

Pace T10®



intended use
the PACE T10 and Pace T20 is intended for a temporary application(< 30 days) at patients as follows:

at pre-operative and operative stimulation of the patient before an implantation or during exchange of an implantable pacemaker
during and after a heart surgical treatment.
for temporary therapy of bradycardia or tachycardia
for therapy of dysrhythmia for certain myocardial infarction
during an external emergency stimulation

depending on the chosen stimulation mode pacing and sensing (detection) occurs by transvenous applied atrial and/or ventricular pacing electrodes or myocardial heart wires

all electrodes or heart wires with diameter from 0.9 mm to 2.1 mm are suitable for the application

Pace T20®



significant product features
single and dual chamber external temporary pacemakers

T10 modes:

A00, AAI, AAT, V00, VVI, VVT, high rate, emergency, OS0

T20 modes:

A00, AAI, AAT, V00, VVI, VVT, DDD, DDI, DVI, DAI, D00, DDT, VDD, VAT, high rate, emergency, OD0

direct high rate mode 400ppm
selectable switch on mode

automatic slow down high rate to defined heart rate

automatic and manual programming of TARP, AV-delay, PVARP and MTR

touch screen system, easy to use, self-explanatory
easy locking of functions against unintended use
very small effort for cleaning and disinfection

protection cover



significant product features
single and dual chamber external temporary pacemakers

up to 20V output / digital precision
electrically isolated outputs (real floating)
biphasic pulse neutralize electric charge on the electrodes
standard AA size batteries (2pcs.)

backup battery system allows a stress-free replacement of the batteries during pacing

collet range: 0.9 - 2.1 mm

patented overwind protected ® collets
patient cables, re-sterilizable up to 25 times

defibrillator protection 5kV
energy-saving and illuminated LCD
operating time: T10>200h / T20>150h

protection cover for rough usage
easy fixable to patient or bed