

BPI 202

Interface for controlling
a balloon pulsation pump



The Interface BPI 202 can be connected to the following pacemakers:

PACE 202, PACE 202 H, PACE 203 H, PACE 300

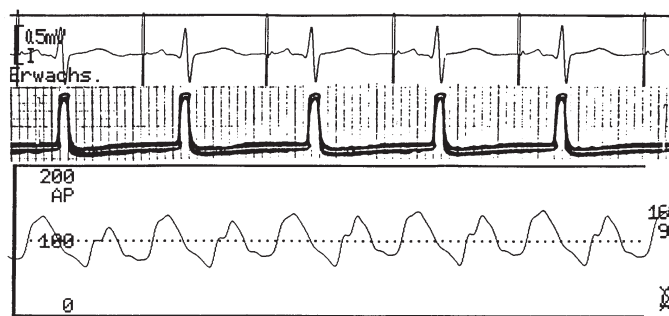
Product Description

With the interface BPI 202 it is possible to synchronize compatible external pacemakers (see chapter 'Technical Data') with most balloon pulsation pumps (intra-aortic pumps) commonly found on the market. All balloon pulsation pumps with three- or five-lead surface ECG connections can be connected to the interface BPI 202.

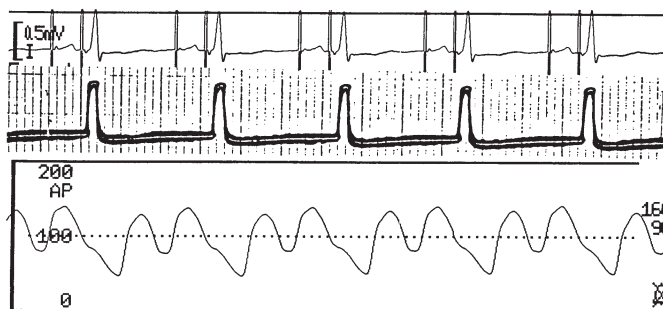
With the help of the pacemaker, the signal of the ventricular channel is further processed and used for controlling the balloon pulsation pump. A signal is prepared at the output of the interface whose electrical appearance (form, impulse amplitude and base width) is similar to a surface signal (R-wave).

In order to obtain a synchronous work between the heart and the balloon pulsation pump during stimulated and spontaneous ventricle action, the output signal will be exactly timed:

- After sensing an R-wave the output signal is only slightly delayed. If the R-wave amplitude is about double the value of the set sensitivity then the delay will be about 5 ms.



- After emission of a stimulation impulse in the ventricle a somewhat longer signal delay occurs (about 35 ms). This is to bridge the latency period (response time) of the heart muscle, that is the time between impulse emission and the subsequent depolarization.



A green LED indicates each signal emission of the interface.

The battery voltage is constantly checked. If the battery needs to be changed, another blinking LED will indicate this.

Because of its 1.90 m long connection cable, the lightweight, battery operated device can be placed next to the balloon pulsation pump. The interface casing is protected against accidental liquid spills (according to norm IP 65).