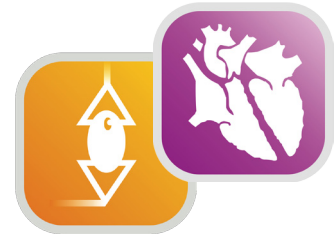


4-channel asynchronous stimulator for isolated organs & tissues



emka TECHNOLOGIES 4-channel asynchronous stimulator can be used to stimulate organs and tissues.

It is especially well suited to be used in conjunction with our emkaBATH4 isolated tissue bath or our isolatedHEART system for Langendorff or working heart experiments.

features

- » generates a constant current or a constant voltage independently on each channel
- » device mainframe can receive up to four modules
- » each module includes buttons, an LCD screen and connectors to set independently the different parameters

adjustable stimulation parameters

- » main frequency
- » stimulation in current or voltage
- » pulse amplitude
- » pulse width
- » pulse polarity (positive, negative or alternative)
- » type of stimulation (continuously, by train, manually)
- » duration of the train or pulse number in the train (if train mode is used)

standalone used or remotely controlled

- » 4-channel asynchronous stimulator can be used in standalone mode or controlled by iox2 software
- » with iox2 software, all settings can be saved in iox2 configuration files. A large variety of protocols can be created and automatically executed

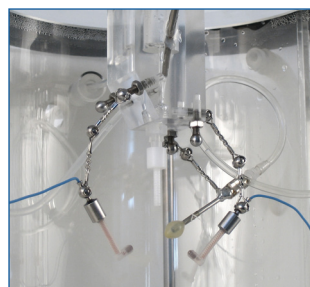


specifications

	min	max
output current	0	799.99 mA
current rise time		3 μ S
current fall time		3 μ S
pulse width	10 μ s	655 ms
stimulation period	100 μ s	655 s
train repetition period	100 μ s	4,5 hr
error		+/- 1%
constant voltage mode		
stimulation voltage	-150 V	+150 V
resolution	50 mV	
error		+/- 1%
constant current mode - 3 ranges		
low range		
stimulation current	-10 mA	+10 mA
load impedance	0	200 ohms
resolution	5 μ A	
error		+/- 1%
medium range		
stimulation current	-100 mA	+100 mA
load impedance	0	200 ohms
resolution	10 μ A	
error		+/- 1%
high range		
stimulation current	-800 mA	+800 mA
load impedance	0	200 ohms
resolution	10 μ A	
error		+/- 1%



stimulation electrodes on bath (left) and myograph (right), on emkaBATH4 system



isolatedHEART system with stimulation electrodes

All contents Copyright © June 2013 emka TECHNOLOGIES SA. All rights reserved. Because emka TECHNOLOGIES has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.