emkaBATH4



CONCENTRATE ON YOUR DATA...

emkaBATH4 takes care of technical details!



IDEAL FOR TISSUES & MICROVESSELS

- » Ideal for tissues of diameter 500 µm to 10 mm / length up to 40 mm such as aorta, trachea & papillary muscles
- » Adapted for the study of microvessels of diameter 100 µm to 3 mm and up to 3.5 mm long
- » Easily switch from standard tubular baths to microvessel baths

ALL-IN-ONE MAINFRAME, COMPACT & MODULAR

- 4 baths with transducers and amplifiers
- » Bath temperatures adjusted and controlled electronically
- » Solution is heated to the target temperature before entering the bath and maintained at this temperature inside the bath.
- » Automated bath filling/emptying & tissue tensioning with motors

RANGE OF INTERCHANGEABLE BATH SIZES

- 20, 10 or 5 ml baths for tissues
- » 5 ml bath for microvessels

RANGE OF HOOKS & TRANSDUCERS

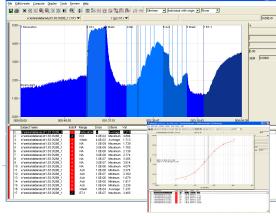
- Open or closed triangle, L and C shape available as standard
- » it30 isometric transducer combines robustness and sensitivity for measuring forces in the range 0-30g
- » it1 isometric transducer measure forces in the range 0-25 g with a high sensitivity, required for beating tissues such atria,
- » itMYO isometric transducer measure forces in the range 0-30 g with a high sensitivity

EASY TO USE

- » Easy calibration: select the measuring range, add the weight and the embedded software adjusts gain and offset for you!
- » Easy tissue mounting & removal for cleaning







emkaBATH4



USER INTERFACE

- » 2 interfaces available: mainframe control panel and iox2 software (via USB connection to a PC).
- » From either interface, you can adjust tissue tension, fill/empty/wash bath, launch a cleaning operation and renewed solution by overflow-suction, so tissue is never exposed to air.

POWERFUL SOFTWARE FEATURES

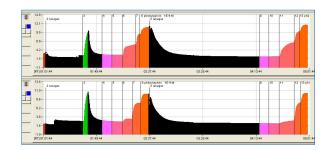
iox2 software manages data acquisition from up to 4 emkaBATH4 mainframes (16 bath):

- » Automatic tissue tension adjustment
- » Full data display as graphs, tables, trends
- » Beat to beat calculation on fast beating tissues (papillary/atrial muscles)
- Detailed calculation on slow contracting tissue (uterus, ileum)
- » On-the-fly comment and mark addition
- » Preprogrammed action triggered by function key or timers
- » Automated control of stimulators, valves, motors protocols

datanalyst software offers a powerful post-processing, with data extraction, group averaging, ED50...

All our software are 21 cfr part 11 compliant: Online data validation, audit trail & secured user access management.

Alternatively, you may use your existing software for acquisition (calibrated BNC analog outputs available).



SPECIFICATIONS

www.emka.fr

emkaBATH4 mainframe		
Dimension	641x500x345 mm	
Weight	18.5 kg	
Power supply	115-230 V	
Positionner resolution	2.5 µm (0.5mm/rotation; 200 steps/rotation)	
Calibration range	0-1/0-10/0-50g	
Analog output	0-5 V	
Bubbling	frit glass	
Initialization time	180 s	
Bath temp. sensor resolution	0.1°C (0.18 °F)	
Bath temp. target range	20.0-39.0°C (68-102.2°F)	

Transducers	it30	it1	itMYO
Range	0 to 30 g	0 to 25 g	0 to 30 g
Sensitivity @Vcc=5V	0.1 mV/g	>0.8m V/g/V	1.67 mV/g

All contents Copyright © July 2016 **emka TECHNOLOGIES SAS.** All rights reserved. Because **emka TECHNOLOGIES** has a policy of continuous product improvement, we reserve the right to change design and specifications without notice