



TECHNICAL SPECIFICATIONS:

- Proprietary mainboard with STM32 Microcontroller
- Hamamatsu PMT solid state detector
- 5" Capacitive touch screen with 800x480 resolution
- 4 samples cuvette reactor with servo motor and 15°/25 °C controlled temperature
- 4-6°C refrigerated bacteria vial store compartment
- Up to 3 different samples analysis with one blank
- On screen step by step sample preparation wizard
- Manual or automatic luminometer gain adjustment
- Integrated thermal graphical printer
- Acoustic alarms
- Internal SD card can store thousands of analysis
- Results can be retrieved by USB port using our proprietary software
- 12.6 VDC – 11000 mAh Internal lithium rechargeable battery pack
- External 100÷240 V_{AC} power supply and battery charger
- Up to 6÷8 hours analysis runtime (depending on external temperature)
- Measures: L555 x W428 x H306 mm
- Weight: 12 Kg



Via Fratta Rotonda Vado Largo 2A
Anagni, 03012 (Frosinone)
ITALY
Tel. +390775776058
Fax +390775772204
www.systea.it



Micromac SmarTox

PORTABLE ANALYSER FOR AUTOMATED
MEASUREMENT OF ACUTE TOXICITY IN WATER

Acute toxicity measurement with luminescent bacteria

Portable toxicity analyser

Micromac SmarTox is a portable automated analyser for toxicity measurements equipped with color touchscreen LCD and housed in an industrial sturdy suitcase, comprising two refrigerated compartments, one for bacteria vial and the other for the samples cuvette where toxicity test are performed. Micromac SmarTox automatically measures water sample effect on bacteria luminescent and in less than 15 minutes it may give the inhibition alarm when the tested sample is toxic. The operator will simply have to dose the sample, buffer and bacteria with the supplied pipettor following the easy instructions on the screen. All the results can be printed directly on the integrated thermal printer. The SmarTox is based on direct read luminometer and use a true discrete high purity synthetic optical cuvette system. SmarTox analyser can be used everywhere thanks to it's internal battery pack that allows to run it for a whole day.



MAIN APPLICATION:

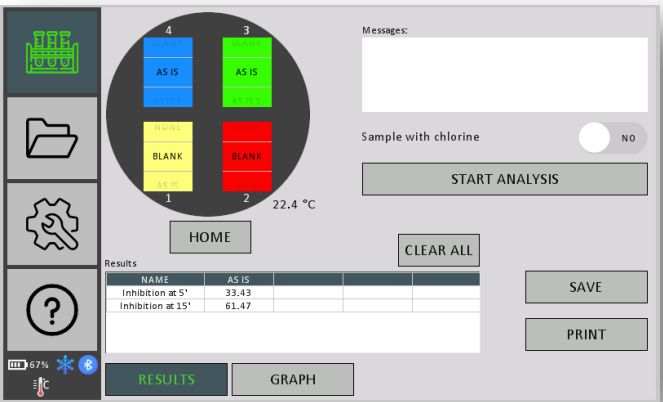
- Drinking water quality check
- Waste water checking
- Process water security control for food applications
- Testing the sensitivity of luminescent bacteria
- Portable emergency system for control in the field

REAL TIME GRAPH EVERY 30 SECONDS WITH INHIBITION %



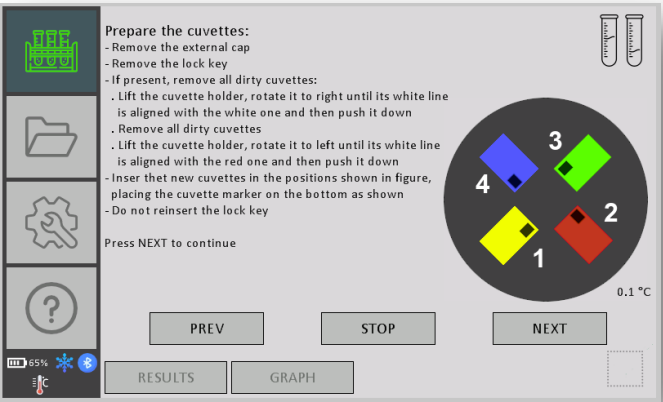
When the analysis is started the system will read automatically every 30 seconds each cuvette positions driven by an internal servomotor and plotting the value on the color touch screen calculating the real time % inhibition.

UP TO 3 SIMULTANEOUS SAMPLES ANALYSIS WITH ONE BLANK



There are 4 cuvettes position where is possible to run blanks or samples (up to 3 different samples with one blank). Positions containing the same type of “sample” will be automatically averaged by the internal software.

ON SCREEN STEP BY STEP PREPARATION WIZARD



To simplify as much as possible and avoid errors, a step-by-step guide is available with images and instructions that will appear on the touch screen during each sample preparation phase.