

## CBX-303

### COMMUNICATION BOX



**CBX-303M**



**CBX-303R**

#### Introduction

The stress models were conventionally made by giving a physical stress such as dipping the animals into the water, restraining them in the restrainers or giving an electrical shock. On the other hand this stress box is designed to make a stress model closer to the case of humans. The animals which do not receive any physical stress are emotionally affected by the animal which receives an electrical shock through the floor grid, finally inducing a gastric ulcer on the mucosa. It is considered a psychological stress. Therefore, the box can be used to assess the effect of the drugs like therapeutic agents for peptic ulcers, anti-anxiety or anti-depressant agents.

The system consists of a CBX-303 communication box, a CBX-CT cycle timer, a CSG-001 3-channel electrical shock generator and a MCS-01 Clip-Mount CS Presentation Unit. The communication box is available in two types ----- CBX-303R for rats and CBX-303M for mice. Custom-made boxes are also available upon request.

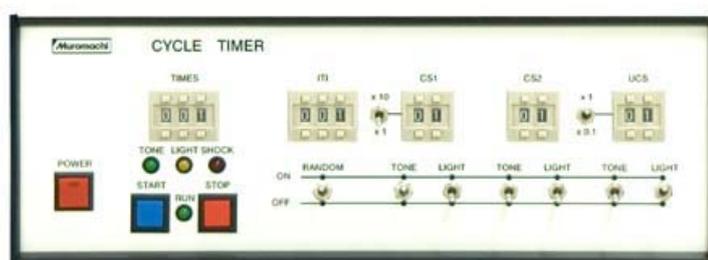
The center and the 4 corner out of the 9 compartments are the psychological stress area and the remaining 4 compartments are the physical stress area where electrical shock is delivered. The color of the compartment dividers is clear so that the animal in the center compartment and the animals in the four corner compartments may receive psychological stress from the four directions and two directions, respectively. The color of the outside surface is not clear.

The ceiling (lid) is made of clear polyvinyl chloride with openings (1 ea/compartment) so that Light and Tone as well as air can be introduced.

## SPECIFICATIONS



<b>CBX-303R COMMUNICATION BOX</b>	
Chamber	Outside Surface : Polyvinyl Chloride(Gray) Compartment Divider : Polyvinyl Chloride(Clear) Lid : Polyvinyl Chloride(Clear)
Division Dimension	W200 x D200 x H500 mm
Grid	Stainless: O.D.6mm every 20mm
Grid Block	Polyvinyl Chloride
Isolation Plate	Polyvinyl Chloride(Clear) x 4 ea
Tray	Polyvinyl Chloride
Chamber Stand	Zinc-plated steel Pipe with Plastic Coating
Dimensions	W690 x D690 x H1,023 mm(Stand included)



CBX-CT CYCLE TIMER			
Setting	By digital SW, toggle SW		
Digital SW	TIMES	1-1000	Number of Cycle
	ITI	1-199	Waiting Period (sec)
	CS1	0-990	Warning Period (sec)
	CS2	0-19	Warning Period (sec)
	UCS	0.1-99	Stimulation Period (sec)
Toggle SW	TONE(CS1, CS2, UCS) ON/OFF of TONE output  LIGHT(CS1, CS2, UCS) ON/OFF of LIGHT output		
START SW	Starts the preset program		
STOP SW	Stops the program (Double Click)		
Display	LED ( RUN, TONE, LIGHT, SHOCK )		
Output	Open Collector (30V DC 30mA)		
Dimensions	W320 x D230 x H120 mm		
Weight	Approx. 3 kg		
Power	100V AC 50/60Hz 1A		



CSG-001 3-CH SHOCK GENERATOR	
UCS	Electrical Stimulation Current level adjustable by a rotary switch. Current Intensity: 0.4, 0.6, 0.8, 1.0, 1.2 mA Display : LED Comes on during current delivery
Compliance Voltage	1400Vp-p AC 50/60 Hz
Scramble	4 Line
CS1	TONE (DC24V) Controlled by a variable resistor
CS2	LIGHT AC 100V (200W max.)
Dimensions	W320 x D230 x H80 mm
Power	100V AC 50/60Hz 3A

CSG-001 is a 4-line shock generator scrambler used for the Communication Box CBX-303 which is divided into the 9 (3x3) compartments. One or two animals in a channel (one row) receives an electrical shock since the animals which receive an electrical shock or do not are arranged in turn. The shocker is equipped with the three independent power supplies so as to deliver as equal electrical shock as possible to the objects in a stable manner. Shock intensity can be set at five (5) levels by a rotary switch.

MCS-01 CLIP-MOUNT CS PRESENTATION UNIT		
	Height	60 cm
	Weight	1 kg

**Related Product :MFS-01 Foot-Shock Stress System**

Specifications are subject to change without notice.