

**ENABLING TECHNOLOGIES LABORATORY  
WAYNE STATE UNIVERSITY**

**MOUSE SWITCH EMULATOR  
VERSION 1.0**

**INSTRUCTION SET**

**August 1997**



# ETL MOUSE SWITCH EMULATOR (MSE) VERSION 1.0

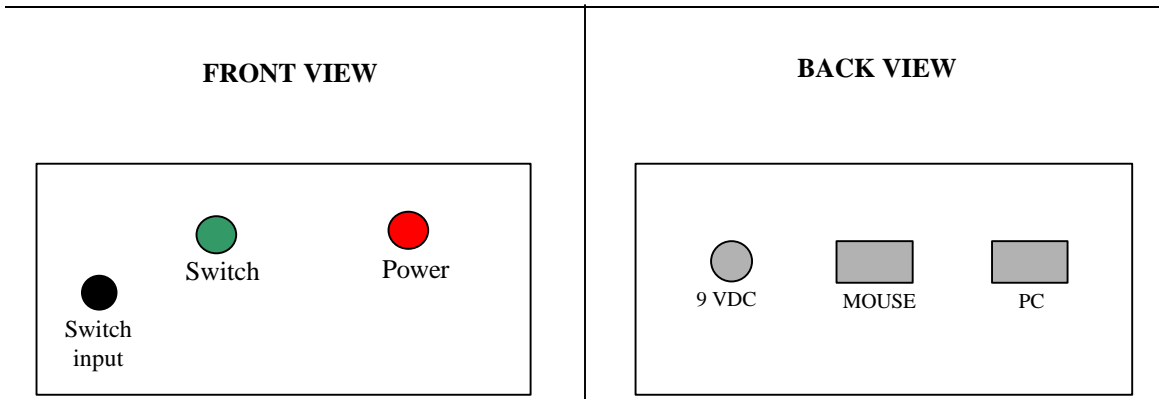
<h2>TABLE OF CONTENTS</h2>
----------------------------

<b>Setup Procedures.....</b>	<b>1</b>
Connecting the mouse, switch, and PC to the MSE.....	1
Programming the MSE.....	2
Using the MSE.....	3
<b>Reference Guide.....</b>	<b>4</b>

# MOUSE SWITCH EMULATOR--SETUP PROCEDURES

## MATERIALS:

Personal Computer (PC)                      9-Volt AC Adapter  
Mouse Switch Emulator (MSE)            RS 232 Cable  
Mouse



**Figure 1: Front and rear views of the Mouse Switch Emulator (MSE)**

## **Connecting the mouse, switch, and PC to the MSE**

**NOTE:** Refer to **Figure 1** while setting up the MSE.

1. Turn off the computer before attaching/detaching any hardware.

**! WARNING !** Always turn off the PC before attaching or detaching hardware. Doing otherwise may cause damage to the MSE or to your PC.

2. Attach the socket side of the RS 232 cable to the mouse port of the PC and tighten the screws.
3. Attach the plug side of the RS 232 cable to the "PC" port on the MSE and tighten the screws.

4. Attach the mouse to the “**MOUSE**” port on the MSE and tighten the screws.
5. Plug the single switch into the “**SWITCH**” jack on the front of the MSE.
6. Attach the 9-V AC adapter to the “9 VDC” jack on the MSE. Then, plug the adapter into a wall outlet. The red POWER lamp on the front of the MSE will glow.

**NOTE:** Use only the 9V AC adapter that is supplied with the MSE. Using an adapter with other specifications may cause damage to the machinery.

7. Turn on the power to the PC.

### **Programming the MSE**

**NOTE:** If the MSE is used with the same mouse each time, it only needs to be programmed once. Each time that a different mouse is used with the MSE, however, it will need to be re-programmed for that mouse.

1. Detach the RS 232 plug from the **PC** port on the MSE.

**! WARNING !** Failure to detach the PC connection while programming the MSE may cause damage to the equipment.

2. Unplug the power supply from the MSE power jack.
3. Hold down the button the single switch *while* attaching the power supply to the power jack on the MSE. The red power button on the front panel of the MSE will flash,

then press the *left mouse button* once. This procedure will familiarize the MSE with the mouse that is attached to it.

4. Unplug the power supply again *before* re-attaching the RS 232 cable to the PC port

**! WARNING !** Failure to detach the power supply while re-connecting the PC may cause damage to the equipment.

### USING THE MSE

1. After the MSE has been programmed to the mouse, the user may use the single switch to emulate the left click of the mouse button. The cursor may be moved in two ways:
  - (a) using a scanning device
  - (b) moving the mouse

Each time that the switch is closed, the *green switch lamp* on the front of the MSE will flash.

**NOTE:** Standard mouse features are fully functional while the mouse is attached to the MSE.

# MOUSE SWITCH EMULATOR VERSION 1.0

## REFERENCE GUIDE

If you have any problems with your Mouse Switch Emulator, contact David Sant or Robert Erlandson at Wayne State University's **Enabling Technologies Laboratory** at (313) 577-1791. For questions regarding these instructions, contact Kristine Bradow at the same number.