# The FCC Wants You to Know

This equipment generates and uses radio frequency energy. If not installed and used properly that is in strict accordance with the manufacturer's instructions, it may cause interference to radio and television reception.

It has been type tested and round to comply with merimits for a class b computing evice in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designe to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference is one or more of the following measures:

- Reorient the receiving antenna
- Relocate the computer with respect to the receiver
- Move the computer away from the receiver
- Plug the computer into a different outlet so that computer and receiver are on differen branch circuits.

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## SERIAL MOUSE Operation Manual

RADIO SHACK Division of Tandy Corporation Fort Worth, Texas 76102

### Serial Mouse Operation Manual: © 1987 Tandy Corporation. All Rights Reserved.

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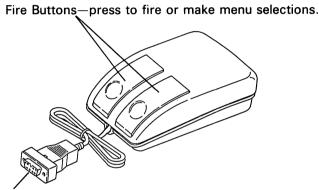
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### Introduction

For those programs that require exact positioning of the cursor, you will find the Serial Mouse far superior to conventional X-Y controllers. Furthermore, creating graphics becomes much easier and faster with the Serial Mouse.

### **1** Description of the Serial Mouse



Computer Connector-connects to the serial port of your computer.

### 5 Care and Maintenance

• Do not drop the Mouse.

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- Be sure to place a clean sheet of paper between the Mouse and the flat surface. Dirt and grit can collect on the ball on the bottom of the unit and mar the flat surface.
- Do not roll the Mouse through any type of liquid.

To clean the ball, press down on the ball retainer and slide it in the direction of the OPEN arrow. Then lift the retainer from over the ball. Remove the ball and wipe it with a lint-free cloth. Replace the ball and reinsert the retainer, OPEN end first. Press down on the retainer and slide it in the direction of the CLOSE arrow until it snaps into place.

### 6 Technical Specifications

Cable Length	5 feet (1.5 m)
Dimensions	1¾″×2%″×4⅛″ HWD
	30.5×65×105 mm
Weight	6.8 oz (180 g)
Operation Temperature	32° to 104°F (0° to 40°C)
Storage Temperature	5°to 140°F (—15°to 60°C)
Ambient Humidity	10 to 90% Relative (non-condensing)

### 4 Using the Serial Mouse

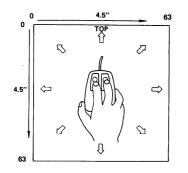
After setting up the system and installing the Mouse, controlling the cursor becomes a matter of logic. When using the Mouse, make sure the buttons are at the top of the unit, toward the monitor.

Horizontally and vertically, the Mouse divides the screen into 64 steps (0-63). Therefore, the center point of the screen is X=32, Y=32. The maximum movement of the Mouse is approximately 4.5 inches (horizontally and vertically). If the Mouse is moved further than this in any direction, the movement is no longer reflected by the cursor on your screen until the Mouse moves back within the specified boundaries. The illustration shows the maximum movement capabilities of the Mouse.

**Note:** The available movement area for the cursor is governed by the program you are using. Some programs allow you to use the entire screen area. Other programs restrict your movement to certain areas of the screen.

You can also move the cursor diagonally. And, if you are drawing graphics, it is easy to move in a circular pattern with the Mouse.

The two buttons at the top of the Mouse can be used to make selections on the screen. Refer to the manual supplied with the program for button functions.



### 2 Setting up the Serial Mouse

1. Plug the connector into the serial port of your computer. Consult your computer's owner's manual for location of the serial port.

If your serial port is a 25-pin connector, you need to purchase a DB9 to DB25 conversion cable (Cat No. 26-1399) and an RS-232 cable connector (Cat No. 26-1495).

If you have two serial ports, you can plug the mouse connector into either one. The mouse software automatically initializes the correct port.

- 2. Place the Mouse on a flat surface (table top or desktop).
- 3. Place a sheet of paper between the flat surface and the Mouse to prevent marring of the flat surface

### 3. Installing the Mouse Software

Before you can use the Mouse, your operating system needs instructions on how to handle data the Mouse generates. The system gets these instructions from three programs that are on your system disks: MOUSE.SYS, MOUSE.COM, and CPANEL.COM, If you have two diskettes for your system, the mouse files are on the Supplemental Programs diskette. Otherwise, the mouse files are on your MS-DOS/GW-BASIC diskette. If your diskette(s) does not contain these files, contact your local Radio Shack store to obtain an up-to-date diskette.

### **Keyboard Method**

There are two ways to install the Mouse files: The first way is to make certain that the MOUSE.COM file is on the MS-DOS diskette you use for booting your system. Then, type:

mouse ENTER

If you use this method, you must type the command each time you start your computer.

### **Automatic Method**

Alternately, you can install a mouse driver (a controlling program) for your system to automatically load every time you boot your computer. To do this, first use the DIR command to check if your boot disk contains a file named CONFIG.SYS.

If the file is on your boot disk, type: copy config.sys + con config.sys <u>ENTER</u> device = mouse.sys <u>ENTER</u> [F6] ENTER

If the file is not on your boot disk, type:

copy con config.sys ENTER

device = mouse.sys [ENTER]

```
F6 ENTER
```

Use this same procedure to install the mouse driver on any boot disk, but type the lines only once for each disk. After the mouse software is installed (either from the keyboard or from the CONFIG. SYS file), you are ready to load and run an application program that uses the Mouse.

### **Mouse Sensitivity**

After installing and using your Mouse, you might want to adjust its sensitivity level (the ratio of Mouse movement to the mouse pointer movement). The CPANEL.COM program lets you do this. To initialize CPANEL from the keyboard, type:

### cpanel ENTER

Alternately, you can select to automatically load CPANEL every time you boot your system. To do this, first use the DIR command to determine if your boot diskette contains an AUTOEXEC.BAT file.

If the disk does contain the file, type:

copy autoexec.bat + con autoexec.bat ENTER cpanel ENTER F6 ENTER

If the disk does not contain the file, type:

```
copy con autoexec.bat ENTER
```

```
cpanel ENTER
```

F6 ENTER

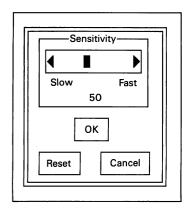
Once you have loaded CPANEL, it stays in your computer's memory and you should not load it again. Doing so reduces the amount of memory and environment space you have available to your computer.

### Using CPANEL

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Whether you initialize CPANEL from the keyboard or automatically on boot up, you can use CPANEL at anytime to adjust the sensitivity of your mouse. To do so, press <u>CTRL</u> <u>ALT</u> and, while holding down these keys, press either mouse button. The CPANEL display appears on your screen :

The position of the block marker and the number below the sensitivity bar indicate the current sensitivity level. To change the sensitivity level, move the mouse pointer to either the right or left arrow (triangle) and click the left mouse button. This moves the sensitivity marker by increments of five. To move the marker continuously in the direction of the arrow, press and hold the left mouse button.



As you move the marker, the value representing the current sensitivity level changes. Alternately, you can place the screen pointer on top of the marker, hold down the left mouse button, and drag the marker in the desired direction.

To save changes, move the mouse pointer to the OK box and click the left mouse button. If you don't want to save the changes, click on the Cancel box. You can also return the Mouse to the sensitivity setting it had before you last invoked the Control Panel. To do so, click on the Reset box.

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