

Touch panel

DESCRIPTION

The touch panel is an input device employing a material of transparent electrodes formed on glass-film transparent board. Since the keyboard itself is transparent, the touch panel can be placed directly on top of a display device.

FEATURE

- The film is situated on the top side, making input possible with a lightly touch.
- Having a fingertip, stylus or other pen touch a key switch on the panel causes the upper and lower electrodes contact each other, leading to the entry of the key information.
- Film and glass combination structure resulting in high transitivity.

STRUCTURE

- A transparent electrode is formed uniformly over the entire effective surface on the film and glass of a touch panel (see fig 1).

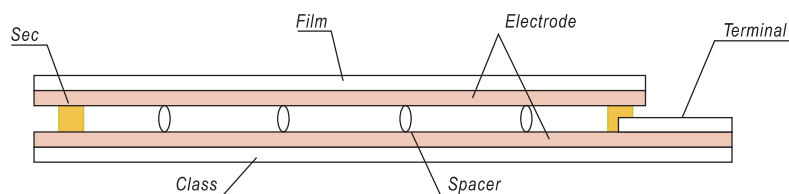


Fig 1

APPLICATION

- | | |
|------------------|----------------------|
| 1. MONITOR | 4. DATA BANK |
| 2. PDA | 5. REMOTE CONTROLLER |
| 3. CONTROL BOARD | 6. WATCH |

ANNOTATE

- The touch panel has as numerous push-button switches as the keys arranged in a matrix (see fig 2). To locate the x and y coordinates, voltage V_x taken from the y electrode and voltage V_y taken from the x electrode are converted into digital data and assigned coordinates (see fig 3).

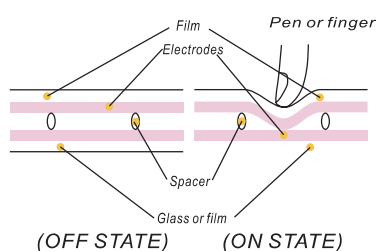


Fig2

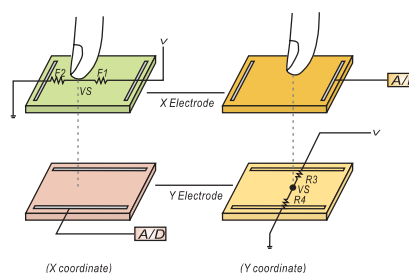


Fig3

- A block diagram of the configuration

