ISO 9001:2008

ASHE CONTROLS PVT LTD
an ISO 9001:2008 certified company

PRECISION CONTROL

MEMBRANE KEYBOARDS

Overview

Ashe Controls designs a range of industrial grade MMI Membrane Keyboards for various process operations. Keyboards employed in industrial applications need to conform to rigid safety standards which require protection from high temperatures, dust, humidity, moisture, vibrations, corrosive substances and mechanical shocks.

Ashe Controls also undertakes the custom design and manufacture of application-specific Membrane Keyboards for interface to PCs or dedicated PLCs and DCS systems. The PC-compatible Membrane Keyboards are basically structured around the standard PC compatible keyboards and can be plugged into any USB or PS-2 socket of a PC for normal operations.

The application-specific Keyboards are designed specifically for operation with a PLC or PC based system software. Inputs required to design these keyboards are basically the Key-layout, the Key Codes and the communication protocol.

A Membrane Switch-pad of polyester material is used for operator interface. The desired key legends are printed on the overlay, while transparent windows are provided for indicating LEDs or digital displays. Macros can be assigned to specific keys, while a range of soft-keys can be provided for on-site assignments of keys.

The Keyboard access can be inhibited using a key-lock switch. Other options include LEDs for key indications, electronic Buzzers for key-press feedback, flush-mounting executions, Mouse Pads, etc. Non PC-compatible designs for specific system interface can also be designed as required. The Keyboards are manufactured using selected high-grade components which guarantee it's functionality and long operational life.

All ASHE range of instruments carry a lifetime warranty for design and workmanship.

Features

- Microcontroller based design.
- Standard and Customized designs
- USB or PS2 compatible
- Tactile feedback with gold plated metal domes
- Life expectancy of one million operations
- IP65 ingress protection for Membrane Keypad
- LEDs for process indications
- Audio feedback
- Very low power consumption and heat dissipation
- System powered
- Rugged, industrial grade ABS enclosure
- High Noise immunity.
- Desk top or Flush-panel mounting
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

Specifications

Model	107-T (Standard PC compatible Keyboard) Customized designs made to user specifications & layouts
Type	Microcontroller based Membrane Keyboards
Material	Polycarbonate Membrane panel.
Key operation	Tactile and Non-tactile.
Key type	Embossed / Non-embossed.
Key-life expectancy	One million operations.
Operating Temperature	-18 to +70 degrees Cent.
Humidity	95% RH.
Power Supply	System-powered / External-Powered.
Ingress protection	IP65 (for Membrane Keypad) IP54 (for rest of enclosure)
Memory	Non-volatile on EEPROM.
Execution	Desk-top mounting.
Enclosure	Industrial grade ABS.
Weight	Approximately 0.5 Kgs.
Operating Temperature	0 to 50 °C.

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