

# MSD-4C

## Code Operated Switch



### FEATURES / BENEFITS

- ✓ Interface - EIA RS-232, CCITT V.24, DB-25 Female Connectors
- ✓ Data Rates/Format - 2.4k up to 76.8Kbps Async
- ✓ Operates in Text or Graphics Modes
- ✓ Anti-Streaming - Automatic or Manual for unattended Circuit Restoral
- ✓ Individual Sub-channel Enable / Disable Switches
- ✓ Visual Indication of Sub-channel Activity
- ✓ Status LED's for Master Port and Sub-Channels
- ✓ 110/220VAC switch selectable
- ✓ UL, CSA and CE Approved, RoHS
- ✓ Sturdy Aluminum Enclosure

### DESCRIPTION

The MSD-4C is a code-operated switch that has five RS-232 serial ports consisting of a Master Port and four sub-channel ports. The user will enter an ascii command from a computer that is transmitted over the Master port. The ascii command allows automatic switching of the Master Port data path to one of the four sub-channel ports. The data path is secure and does not allow the other data ports to access the Master Port until an ascii command is re-issued.

Code-operated switches are useful in environments where remote switching is needed for file-sharing or monitoring purposes. For example, you could use an RS-232 serial code-operated switch to remotely switch between pieces of data terminal equipment (DTE), such as servers or routers for running diagnostics from a remote console.

The MSD-4C operates in two primary modes of operation known as Text or Graphics.

1) In Text Mode, the unit will enter switch-time whenever it receives an arming character. It will select the sub-channel that is specified by the channel select character. The remaining text will pass through the unit until another arming character is encountered.

2) The Graphics Mode is capable of passing graphics data while still maintaining code control. In this mode, an arming character will only be recognized as an arming character if it is preceded by a pause in data transmission of a minimum length of time.

The MSD-4C has status LED's for the Master Ports control and data signals. Additionally the unit has LED's showing the sub-channel port connected. Internal circuitry allows the user to select a time out of a data port. The timeout will allow other data ports to then be accessed.

The MSD-4C utilizes state of the art digital CMOS technology to provide a feature filled product at a very affordable price. The unit is housed in a sturdy metal enclosure and operates on 110/220VAC line voltages.

The MSD-4C has a three year warranty and a 24 hour turnaround on warranty repairs.

**EAST COAST DATACOM, INC.**

# SPECIFICATIONS

## Application

Code-operated switch allowing a user from a computer to issue an ascii code to switch the data path routing data from the master port to one of four sub-channel ports

## Capacity

One to four RS-232 Async devices

## Interface

EIA RS-232, CCITT V.24 using DB-25 female connectors, +/- 15KV ESD Protection

## Data Format

Synchronous or Asynchronous  
Data Transparent at all Data Rates

## Data Rates

Up to 76.8Kbps

## Modes of Operation

Text or Graphics

## Anti-Streaming

Automatic . . . Selectable time out intervals  
Disable . . . . Selectable via dip switch

## Front Panel

Indicators . . . Power, RTS, CTS, DCD, DTR, TXD, RXD, Channel Active, Channel Stream  
Switches . . . . Enable/Disable of each Sub-channel

## Power Source

100-120 to 200-220VAC @ 10%, 50/60Hz,  
0.16/0.08A, external 110/220 volt select switch, IEC Power Inlet, (2) 5mm Fuses

## Regulatory Approvals Tested According To

UL 60950-1:2003, CAN/CSA-C22.2 No. 60950-1:2003  
CE Safety EN60950 and CE EMC EN300-386-2

## Environmental

Operating Temperature....32° to 122° F (0° to 50° C)  
Relative Humidity.....5 to 95% Non-Condensing  
Altitude.....0 to 10,000 feet

## RoHS Compliant

Yes, Lead Free

## TBF (Telcordia Issue 1)

601,386 hours

## Dimensions

Height . . . . . 1.75 inches (4.44cm)  
Width . . . . . 13.35 inches (33.09 cm)  
Length . . . . . 9.00 inches (22.86 cm)

## Weight

MSD-4C ..... 4.5 pounds (2.1 Kg)

## Warranty

Three Years, Return To Factory

## ORDERING INFORMATION

Main Unit Part Number: 190000  
Model: MSD-4C  
Part Number: 201000  
Description: 4-Port RS-232 Code-operated Switch

## INCLUDED WITH EACH UNIT:

- 1) Operations Manual
- 2) U.S.A. Grounded Power Cord, Part #713015
- 3) Optional Power Cords  
....A) United Kingdom, Part #713016  
....B) Continental Europe, Part #713017  
....C) Other: Specify Country on Purchase Order

For further detailed technical information on this product, contact East Coast Datacom, Inc at: [support@ecdata.com](mailto:support@ecdata.com)

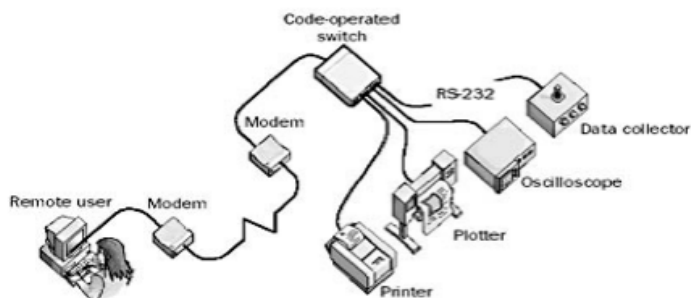


Figure 1 - TYPICAL APPLICATION

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