MMICON LCD/ MMICON Learning Kit

Man Machine Interface

MMICON LCD

MMICON Learning Kit

Functional description

The MMICON is a compact size man-machine interface control board with a 4x4 keyboard interface, a 240x64 dits graphics LCD interface, a RS-232 or RS-485 Interface, 10 isolated digital input. This control board is designed to work with PC or PLC implement a cost-efective man-machine interface.

PC based user can use it interface to integrate a operator interface, insted of the regular monitor and keyboard. The MMICON has RS-232 or RS-485 (Jumper Selectable) port to communicate with PC. The PC can send out command to change the display page or send out straing to display on the specified location. The user should need a I-7520 (RS-232 to RS-485 converter) to implement a RS-485 network. The PC can control upto 256 MMICON controllers in one 2-wire RS-485 network.

PLC user can use digital I/O port to communicate with the MMICON. The PLC send the pagenumber through digital I/O and the MMICON will automatically display the related image stored in EEPROM.

When the user use OMRON PLC, he can use RS-232 to communicate with MMI-CON port. The PLC send the pagenumber into the PLC internal data memory (DM). The MMICON polls the data memory all the time and displays the value of the internal data memory. The DM value can be mixed with image stored in EEPROM. The input value of the 4x4 keyboard can be written into the data memory. Therefore it is also suitable as a man-machine interfacefor PLC.

The useredit the text ans paint the images using the utility in PC environment. The hex file can be programmed into the EEPROM by regular programmer.

Features

- Direct connect to PC via the RS-232C port
- Direct connect to OMRON PLC via the RS-232C port
- Direct connect to common PLC via the isolated digital input port
- Support maximum 256 MMICON controller if RS-485 network used
- 240x64 dots LCD interface
- 4x4 Keyboard interface
- Image stored in on board EEPROM/EPROM/ ROM

Specifications

- EEPOM size : 128K / 256K / 512K
- Control Board Dimension: 162mm X 70mm
- Digital Logic Level:
  Input Low voltage : 0 (min.) ~+1Vdc(Max.)
  Input High Voltage : +12Vdc (min) ~ +24VVdc(max.)
- Digital Input Impedance :3K(Ohm)
- Power Requirement: +10~30Vdc, 1Amp
- LCD Display
  LCD display dots: 240x64 dots
  LCD display area: 108mm x 77mm
- 4x4 Keybort (Learning Kit Only)
  4x4 Keyboard
  Digital Input Testing Switch

Ordering Information

MMICON/LCD	Man-machine interface control board with LCD display
MMICON/Learning Kit	Man-machine interface + LCD Display + 4x4Keyboard

Accessories

I-7520	Power adapter; 110VAC/60Hz input; 24VDC/200mA output