

HMI

HUMAN MACHINE INTERFACE

FEATURES

- Very Low Cost
- Compact Size
(1.875 x 5.9 x 4.4 inches)
(48 x 150 x 112 mm)
- Panel Mountable
- 3 Modes of Operation:
 - Programmable Display
 - Thumbwheel Emulation
 - Register
- Modes of Operation Switch On-The-Fly
- 4k Bytes of User Storage
- 64 Registers for Numeric Storage
- 6 Programmable Function Keys
- User Output
- RS-485 Communications
- ScreenBuilder™ Software Included for Easy Programming and Setup
- Control Multiple MicroLYNX or LYNX in Party Mode
- IP52 Dust and Drip Proof with Proper Installation
- STN (SuperTwisted Nematic) LCD for Expanded Viewing Angle with Adjustable Contrast
- Backlit LCD with On/Off Setting
- Display 4 Lines x 20 Characters

DESCRIPTION

The Human/Machine Interface (HMI) is a powerful addition to the LYNX family of products. Designed to work with IMS MicroLYNX or LYNX controllers, the HMI is a panel mountable, multi-function user interface with 3 modes of operation.

In Programmable Display Mode, the

HMI may be used to display data sent to and from the controller.

In Thumbwheel Emulation Mode, the HMI behaves as an electronic thumbwheel. The user has access to up to four thumbwheel switch banks, each with up to ten digits plus the sign.

In Register Mode, the user may store up to ten characters of numeric data plus the sign in 64 registers. These register contents may then be used to enter values into LYNX variables. Each HMI screen may contain up to 4 registers.

With the ability to switch between modes on-the-fly, the HMI offers power and flexibility not available on other programmable displays.

The HMI has four fixed and two alternate function keys. This allows up to



6 press and/or release functions to be assigned per screen. These functions may be changed on-the-fly in response to user actions. The HMI also features a user output that may be set as an alarm output to turn on a light or activate a siren.

Communications is accomplished using the RS-485 interface with selectable baud rates ranging from 4.8 to 38.4 kbps.

Included with the HMI is the easy to install and use HMI ScreenBuilder™ software. This powerful utility is the recommended programming and setup tool for the HMI.

The Human Machine Interface can be used to control multiple MicroLYNX or LYNX products in party mode, thus providing OEMs with a powerful, easy to use interface for machine control.

ELECTRICAL SPECIFICATIONS

Power Supply Requirements

+V	+12 to +80 VDC
Backlight ON	140 mA @ +12 VDC
Backlight OFF	30 mA @ +12 VDC

Communications

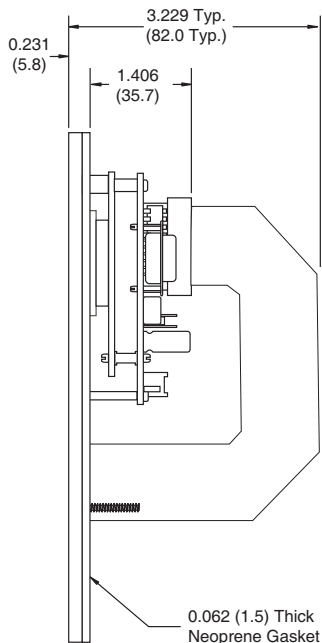
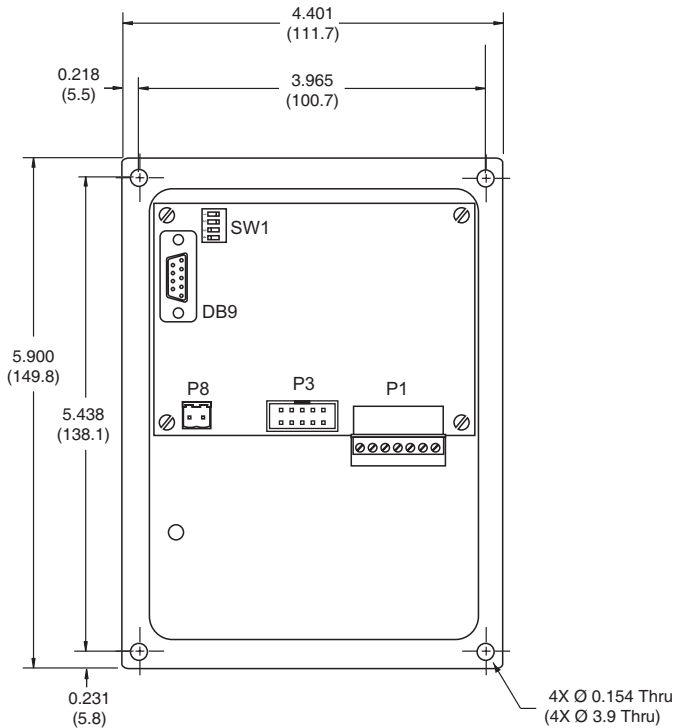
Protocol	RS-485
BAUD Rates	4800, 9600, 19.2k, 38.4k
Duplex	Full

User Output (Maximum Ratings)

Voltage	200 VDC
Current	500 mA

MECHANICAL SPECIFICATIONS

Dimensions in Inches (mm)



PIN ASSIGNMENTS

REMOVABLE SCREW TERMINAL - P1	
PIN	FUNCTION
1	RS-485 TX +
2	RS-485 TX -
3	RS-485 RX +
4	RS-485 RX -
5	COMMUNICATIONS GROUND
6	USER OUTPUT
7	CHASSIS
10 PIN IDC HEADER - P3	
PIN	FUNCTION
2	RS-232 TX*
3	RS-232 RX*
5	COMMUNICATIONS GROUND
6	RS-485 TX +
7	RS-485 TX -
8	RS-485 RX -
9	RS-485 RX +
10	COMMUNICATIONS GROUND
SCREW TERMINAL - P8	
PIN	FUNCTION
1	+V INPUT
2	POWER GROUND
RS-232 COMMUNICATIONS - DB9	
PIN	FUNCTION
2	RS-232 RX*
3	RS-232 TX*
5	COMMUNICATIONS GROUND

*RS-232 Communications Pass Through HMI Between Host PC and MicroLYNX.

OPTIONS

There are three options offered to simplify wiring between the HMI and MicroLYNX or LYNX controller.

- The MX-CC200-001 cable is for use with a single axis controller which will be mounted to the HMI.
- The MX-CC300-000 cable is for use with a two axis controller system.
- The MX-CC400-000 is the hardware mounting kit used to mount a single controller to the HMI.

ORDER INFORMATION

Name	Part Number
Human Machine Interface (HMI)	LX-HI100-000
Single Axis Communication Cable	MX-CC200-001
Double Axis Communication Cable	MX-CC300-000
Single Axis Hardware Mounting Kit	MX-CC400-000