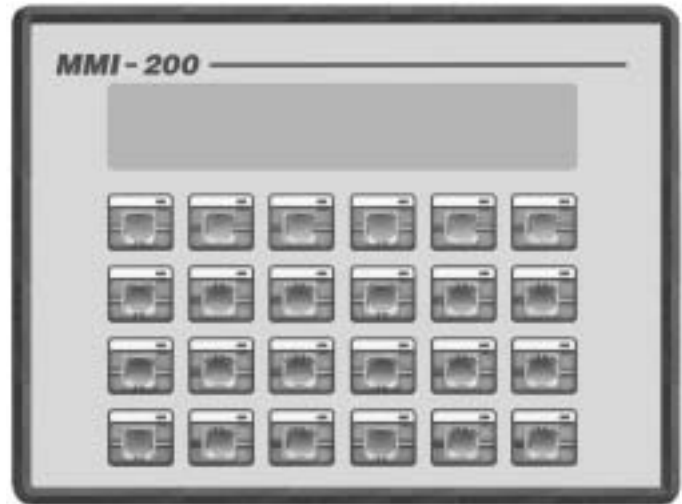


MMI-200

Programmable Push Button and Annunciator Panel

Features

- Easy, Smart Cable Hookup to PLC Programming Port
- 24 Programmable Push-Buttons
- 24 LED Indicators
- Beeper for Audio Feedback of Key Presses
- Open Collector Output
- Setup software can convert projects from one PLC brand to another



Description:

The MMI-200 is designed to:

1. Provide a convenient way for machine operators to:
 - a) View machine status.
 - b) Change applicable status of operation.
 - c) Maintain the running of a machine.
2. Enhance the capabilities of a machine through:
 - a) User defined Push-Button interface.
 - b) Annunciation of user defined conditions through LED's.

The MMI-200 interfaces to a machine through a Smart Cable which is connected to the PLC programming port. No additional communications modules are necessary. Just plug in both ends of the cable and you are ready to go!

Application:

Typical applications include:

Status indication and simple push button operations such as, noncritical On/Off, Alarm Acknowledge and Clear.

Setup -- The MMI-200 is programmed using a Personal Computer. The Windows based setup software is used to configure Push-Buttons and LED's which are defined and downloaded to the MMI-200.

Annunciator LED's -- The MMI-200 has 24 user definable LED's for the purpose of annunciation. Each LED corresponds to a bit in a user designated register pair in the PLC.

Alarm Open Collector Output -- The Alarm Output is controlled by the same register designated for LED annunciation. The Alarm Output can also be disabled by the programming software.

Push-Button Keys -- The MMI-200 has 24 user definable Push-Buttons. A button can be defined to perform any one of the following actions.

- a) TURN ON a bit in the PLC.
- b) TURN OFF a bit in the PLC.
- c) TOGGLE a bit in the PLC.
- d) HOLD ON a bit in the PLC.
- e) HOLD OFF a bit in the PLC.
- f) Download a CONSTANT to a specific location in the PLC.

Beeper -- The MMI-200 contains a piezo electric beeper which is programmed in a similar procedure as the LED's. The beeper can also be disabled by the programming software.

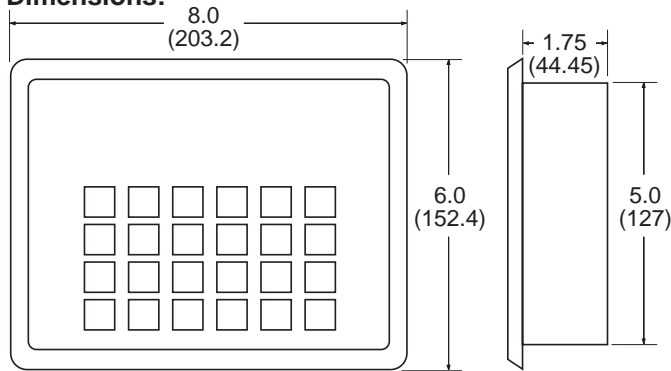
Register Bit designations

Register 1	Register 2
1 - LED 1	1 - LED 17
2 - LED 2	2 - LED 18
3 - LED 3	3 - LED 19
4 - LED 4	4 - LED 20
5 - LED 5	5 - LED 21
6 - LED 6	6 - LED 22
7 - LED 7	7 - LED 23
8 - LED 8	8 - LED 24
9 - LED 9	9 - Not Used
10 - LED 10	10 - Beeper Enable
11 - LED 11	11 - Activate Beeper
12 - LED 12	12 - O.C. Enable
13 - LED 13	13 - Activate O.C.
14 - LED 14	14 - Not Used
15 - LED 15	15 - Not Used
16 - LED 16	16 - Not Used

SPECIFICATIONS

Power	12 to 24 VDC, 6W Maximum
Bezel	NEMA 4 / IP65 rated membrane keypad
Temperature	Operating: - 0 to 50 degrees C Storage: -40 to 90 degrees C
Humidity	10% to 90% (Non condensing)
Size	8" W x 6" H x 1.75" D (203.2 mm x 152.4 mm x 44.45 mm)
Panel Cutout:	7.1"W x 5.1"H (180.3 mmWx 152.4 mm H)
Communication	Using the programming or the standard communication port of the PLC
Memory	8k EEPROM
Open Collector O/P	24 Volts at 100 mA maximum
Immunity to ESD	8 kV Air, 6 kV Contact as per IEC801-2
Immunity to Transients	2 kV as per IEC801-4 2 kV 1 us Impulse Noise
Radiated Susceptibility	10 Volts/meter as per 1EC801-3
Emissions	EN5501,1 CISPR A
Approvals	CE Pending

Dimensions:



PANEL CUTOUT: 7.1 (180.3) X 5.1 (129.5)

All Dimensions in inches (mm)

MMI Setup Software Information

The Windows® based MMI setup software is a convenient way to setup this PLC Interface Product.



Our software makes Function Key setup a snap!
Create, Edit and View messages with Point & Click Ease!

How To Order:

EXAMPLE:	MMI200	A
Series	_____	
	MMI-200	

Options (add to end of part number) _____

- A = 115 VAC Power
- B = 230 VAC Power

For PLC Type

Use Smart cable part number as indicated below. Also refer to SMIC Cables in the Accessories Section of this catalog. The MMI-200 will not operate without a smart cable and software.

EXAMPLE:	SMIC-	GE90-	05
Series	_____		

PLC Type

AB500	AB SLC500 types with DH485 port
ABDF1	AB SLC500 5/03, 5/04 with DF1 port
ABMICRO	AB MicroLogix only
ABAIC	For use with AB AIC Modules
ARO	All Aromat FP1 Series
FUJI	Fuji Flex Series NB, NJ and NS
GE90	All GE 90 Series SNP Port
IDECM1	Idec M1 and FA2J
IDECM3	Idec Micro3 Series
IDECM3C	Idec Micro3C Series
K205	Koyo DL230, DL240, DL250
K305	Siemens Simatic 335, Koyo 340
K405	Siemens Simatic 425, 435, Koyo 440
KEY	Keyence KV 10,16,24,40 & 80, KV300
MOD	Modicon Micro 84; 884; 984; Open Modbus and J-Bus
MODMICRO	Modicon Micro 984
MITFX	Mitsubishi FX Series
MITFXO	Mitsubishi FXo only
OMCK25	Omron C Series, (Host link modules)
OMCH9	Omron CH Series
OMCQM	Omron CQM1 Series
SIS5	Siemens S5 Series, 95, 100, 102, 103, 115
SIS7	Siemens S7-200 Series
TSBEX	Toshiba EX Series & M Series Program Port
TSB485	Toshiba EX & M Series RS-422 Link Port
TSBT1	Toshiba T1 only
TSBT2	Toshiba T2 and T3
TSX07	Telemecanique TSX 07 (nano), TSX 37
TSX17	Telemecanique TSX 17
TSX47	Telemecanique TSX 47-40, TSX 47-20

Cable Length

05 = 5 feet

Accessories:

ZA9M9F - Five feet of cable with DB9 male connector and DB9 female connector.
(PC end, normally used for "AT" COM1)

ZA9M25F - Five feet of cable with DB9 male connector and DB25 female connector.
(PC end, normally used for "XT" or "AT" COM2)

MMISOFT - Setup software for MMI-1XX, IMMI-2XX and IMC2