OP3059-V01



FEATURES

- 3.5 LCD with resistive touch screen
- 10 Password levels
- Windows based user friendly software for HMI configuration
- RS 485 based communication
- Alarm
- MODBUS RTU protocol

DISPLAY SPECIFICATION

TYPE	3.5 TFT LCD (256 colors)
RESOLUTION	320x240
DISPLAY SIZE	3.5" Digonal
BACKLIGHT	LED
NO. OF KEYS	4 Function keys + 1system key

FRONT PANEL

TOUCH SCREEN	Analog resistive

COMMUNIATION

INTERFACE	PROTOCOL	CONFIGURATION
RS 485	MODBUS RTU	Slave
RS 485	MODBUS RTU	Master
USB	-	Slave

RATING

POWER SUPPLY VOLTAGE	18 - 30VDC
POWER CONSUMPTION	2.5W max @ 24v DC

ENVIRONMENTAL CONDITION

TEMPERATURE	Operating : 0 to 50°C Storage : -30 to 85°C
HUMIDITY	95% RH

MECHANICAL SPECIFICATION

DIAMENSION	99x99x62.85mm (WxHxD)
PANEL CUTOUT	92x92mm (WxH)
MOUNTING	Panel mount
WEIGHT	190 grams

I / O CONNECTORS

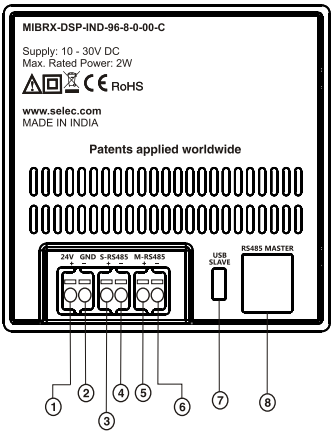
COM PORT	1x RS485 Slave (2 terminal)
	1x RS485 Master (2 terminal)
	1x RS485 Master (Jack)
	1xUSB

FUNCTIONAL SPECIFICATION

PROGRAMMING METHOD	Windows based software for HMI configuration
MEMORY	Internal BMP - 1MB Application - 128KB
MIN. SCAN TIME	Less than 100ms
TYPICAL SCAN TIME	400ms (And also depends on application)
ALARM	Yes
PASSWORD	Yes (10 Password levels)

TERMINAL CONNECTIONS

BACK VIEW



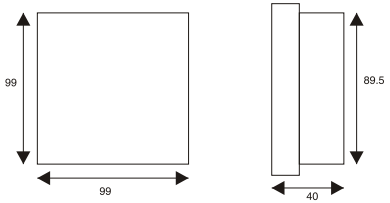
SR. NO	DISCRIPTION
1	+24V
2	GND
3	RS485 SLAVE +
4	RS485 SLAVE -

SR. NO	DISCRIPTION
5	RS485 MASTER +
6	RS485 MASTER -
7	USB SLAVE
8	Rs485 MASTER (JACK)

ENVIRONMENTAL CONDITION

CONNECTOR	RS 485 SLAVE (TERMINAL)
TRANSMISSION MODE	Half duplex
TRANSMISSION SPEED	9600, 19200, 38400, 57600, 115200 bps
PARITY	None, Odd, Even
STOP BITS	1 or 2
DATA BITS	8

DIAMENSION (in mm)



DIAMENSION (in mm)

PRODUCT CODE	DESCRIPTION	CERTIFICATION
MIBRX-DSP-IND-96-8-0-00-C	HMI-3.5" Resistive touch screen	CE RoHS

MECHANICAL INSTALLATION

For installing the HMI

1. Prepare the panel cutout with proper dimensions.
2. Remove the clamp from the HMI.
3. Fix the unit into the cutout. Insert the clamp from both sides and tighten the screws.

CAUTION

The equipment in its installed state must not come in close proximity to any heating sources, caustic vapors, oils, steam, or other unwanted process by products.

EMC Guidelines :

1. Use proper input power cables with shortest connections and twisted type.
2. Layout of connecting cables shall be away from any internal EMI source.

MAINTENANCE

1. To avoid blockage of ventilation holes, clean the equipment regularly using a soft cloth.
2. Do not use Isopropyl alcohol or any other organic Solvents for cleaning.

WIRING INSTRUCTIONS

CAUTION

1. To prevent risk of electric shock, power supply to the equipment must be kept OFF while wiring.
2. Terminals and electrically charged parts must not be touched when the power is ON.
3. Wiring shall be done strictly according to the terminal layout provided in the operating manual.
4. To eliminate electromagnetic interference use short wire with adequate ratings and twists of equal size.
5. The power supply connection cable must have a cross section of 1sq.mm or greater and insulation capacity of at least 1.5KV.

FUNCTIONAL DETAILS

MIBRX-DSP-IND-96-8-0-00-C is a HMI. The user can configure the product using SMI software.

This software is provided with the product. For details of the software and configuration method, please refer to its user manual with the product.

ACCESSORIES

Accessories for Communication
AC-USB-RS485-02 (USB to 2 pin open wire)
ACH-004 (6 pin to 6 pin RJ25 jack) for expansion only

SERVICE DETAILS

This device contains no user serviceable parts and requires special equipment and specialized engineers for repair.

Please contact service center for repair on the following numbers :

Tel. No. : + 91-7498077172 ; **Email :** service@selec.com

NO WARRANTY ON UNIT DAMAGED DUE TO WRONG POWER SUPPLY.

(Specifications are subject to change, since development is a continuous process)

Selec Controls Pvt. Ltd.

Factory Address :
EL-27/1, Electronic Zone, TTC Industrial Area, MIDC,
Mahape, Navi Mumbai - 400 710, INDIA.
Tel. No. : +91-22-4148 419/430 I Fax No. : +91-22-28471733
Toll free : 1800 227 353 (BSNL/MTNL Subscribers only)
Website : www.selec.com I Email : sales@selec.com

SAFETY PRECAUTIONS

This manual is meant for personnel involved in wiring installation, operation and routine maintenance of the equipment. All safety related conditions, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure operator and instrument safety. Any misuse may impair the protection provided by the equipment.

CAUTION : Read complete instructions prior to installation and operation of the unit. The equipment in its installed state must not come in proximity to any heating sources, caustic vapours, oil, steam or other unwanted process by products.
CAUTION : Risk of electric shock.