SELEC

OP3110-V02



48 x 96

PARAMETERS	SPECIFICATIONS	
Display	4 digits (White) White Display:- 0.56" 7 segment digital display	
Keys	3 keys for digital setting	
INPUT SPECIFICATIONS		
Input Signal	Voltage : 0 - 10V DC Current : 0 - 20mA DC 4 - 20mA DC	
Sampling time	250 msec	
Input Filter (FTC)	0.2 to 9.9 sec	
Resolution	Decimal point position selectable 1/0.1/0.01/0.001	
Indication Accuracy	±0.5% of F.S., ±1 digit (F.S. = Full Scale)	
POWER SUPPLY SPECIFICATIONS		
Supply Voltage	85 to 270V AC / DC (AC : 50 / 60 Hz)	
	24V DC, 5 VA max	
Power Consumption	5 VA max@270V AC	
Temperature	Operating: 0 to 50°C Storage:-20 to 75°C	
Humidity	95% RH (non-condensing)	
Weight	100 gms (0.220 lbs)	
Protection Level	IP65 for faceplate	

SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument.

If the equipment is not handled in a manner specified by the manufacturer it might impair the protection provided by the equipment.

operation of the unit.

WARNING : Risk of electric shock.

WIRING GUIDLINES

PIC101B-VI

Operating Instructions

CAUTION:

- 1. To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
- 2. To eliminate electromagnetic interference use short wire with adequate ratings: twists of the same in equal size shall be made. For the input and output signal lines, be sure to use shielded wires and keep them away from each other.
- 3. Cable used for connection to power source, must have a
- cross section of 1mm² or greater. These wires shall have insulation capacity made of at least 1.5kV. 4. A better anti-noise effect can be expected by using
- standard power supply cable for the instrument.

MAINTENANCE

- 1. The equipment should be cleaned regularly to avoid blockage of ventilating parts.
- 2. Clean the equipment with a clean soft cloth. Do not use Isopropyl alcohol or any other cleaning agent.

INSTALLATION GUIDELINES

CAUTION

- 1. This equipment, being built-in-type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the end user after installation and Internal wiring.
- 2. Do not allow pieces of metal, wire clippings, or fine metallic fillings from installation to enter the product or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
- 3. Circuit breaker or mains switch must be installed between power source and supply terminals to facilitate power 'ON' or 'OFF' function. However this switch or breaker must be installed in a convenient position normally accessible to the operator.
- 4. Use and store the temperature controller within the specified ambient temperature and humidity ranges as mentioned in this manual.

CAUTION

- 1. When powering up for the first time, disconnect the output connections.
- 2. Fuse Protection : The unit is normally supplied without a power switch and fuses. Make wiring so that the fuse is placed between the mains power supply switch and the controller. (2 pole breaker fuse - rating : 275V AC.1A for electrical circuitry is highly recommended)
- Since this is a built-in-type equipment (finds place in main 3. control panel), its output terminals get connected to host equipment. Such equipment shall also comply with basic EMI/EMC and other safety requirements like BSEN61326-1 and BSEN 61010 respectively.
- 4. Thermal dissipation of equipment is met through ventilation holes provided on chassis of equipment. Such ventilation holes shall not be obstructed else it can lead to a safety hazard.
- Read complete instructions prior to installation and 5. The output terminals shall be strictly loaded to the manufacturer specified values / range.

MECHANICAL INSTALLATION

For installing the controller



- 1. Prepare the panel cutout with proper dimensions as shown above.
- 2. Fit the unit into the panel (Self locking mechanism).
- 3. 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. 4. Do not connect anything to unused terminals.
- 5. Use minus type screw driver to remove unit from the panel.
- Put screw driver in the cavity of clamp and gently push outside.

PANEL THICKNESS

0.5mm(minimum) and 2.5mm(maximum)

HOW TO REMOVE SELF-LOCKING CLAMP

Use small minus type screw driver to remove Unit from panel. Insert Screw Driver in a cavity of Self-locking clamp as shown in below figure. Gently press clamp inside from one side first and press unit out of the Panel and then Press clamp from Second side to remove complete unit.



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.

ELECTRICAL PRECAUTIONS DURING USE

Electrical noise generated by switching of inductive loads can create momentary discruption, erratic display, latch up, data loss or permanent damage to the instrument.

To reduce noise :

A) Use separate shielded wires for inputs





mA+ -24V +24V



Functions	Key press
Programming Mode	
To view Configuration Level	Press 🛦 keys for 3 seconds.
To view parameters on the same level.	Key once to register/ view the next function in operational men
To set parameter ranges.	Key to scroll through the function ranges (ranging 0 to 9)
To select digit	► Key to select digit from MSD to LSD
NOTE : The unit will auto exit programming mode after 30sec. of inactivity.	
OR By pressing the	keys for 3 seconds.

When an error has occured, the display indicates error codes as given below

1	ener eedee de green selenn	
	Error	Meaning
1	0060	Sensor break / over range condition
	reur	Sensor reverse / under range condition

