



Technical Specification





Model	MMC-1046T
Display	UPPER:- 6 Digit 7 seg 0.56", red LED Display LOWER:- 4 Digit 7 seg 0.4", green LED Display
Size (mm)	96 (H) X 96 (W) X 50 (D) mm
Panel Cutout	92 X 92 mm
Range	0 To 99.99 Second
Input	NPN Proxy, NPN Color mark sensor (CMS), Micro switch
Output	1Relay, 1C/O 230V AC
Power Supply	100 to 270V AC, 50/60 Hz, Approx 4VA
Protection Level	IP-65 (Front side) As per IS/IEC 60529 : 2001
Operating Temperature	0°C To 55°C
Relative Humidity	Up to 95% RH Non Condition

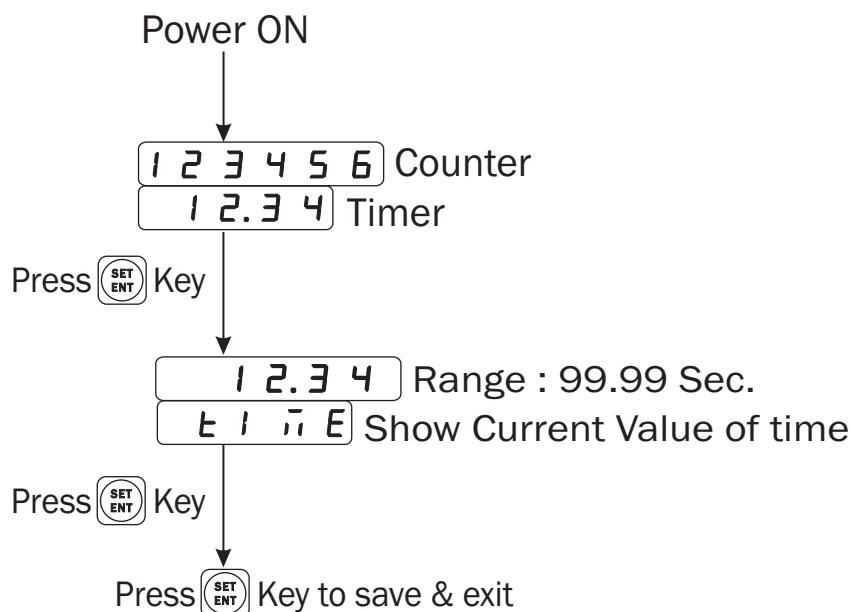
Working

1. Make all connection properly according to the "Connection Diagram". Then ON the instrument, set the "Set Time" according to your requirement press key to store new value in memory.
2. When a pulse Input is given to NPN Proximity sensor, than Upper Display will increase Counts & Timing will start in Lower Display. Between running time if Pulse of CMS is given than timing will stop. At the end of Timing Relay will turn Off.
3. If you don't press any key for 5 seconds, the previous value of set point is retained and the instrument goes in to run mode.
4. Press to store set value in memory, simultaneously instrument goes in run mode. only after Press key the new value is stored.
5. If you want to reset your instrument Press key.

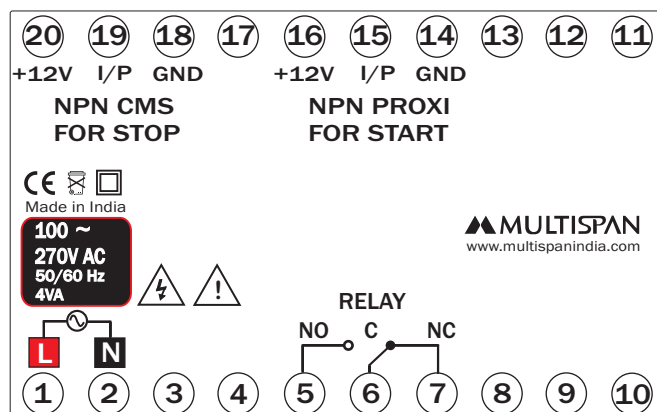
Key Operation

- 1) Press  key, Shift to the next digit
- 2) Press  key, Increase individual digit value

Basic Configuration



Connection Diagram



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

=> Read complete instructions prior to installation and operation of the unit.



WARNING : Risk of electric shock.

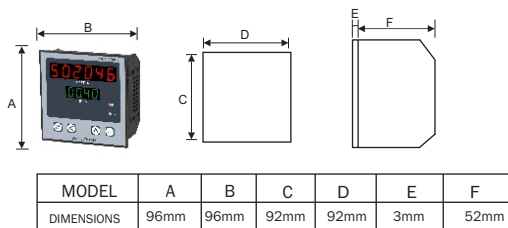
Warning Guidelines

- 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 reduce electro magnetic interference, use wire with adequate rating and twists of the same of equal size shall be made with shortest connection.
- 3) Cable used for connection to power source, must have a cross section of 1mm^2 or greater. These wires should have insulations 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.

Installation Guidelines

- 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 terminal to facilitate power 'ON' or 'OFF' function. However this mains switch or circuit breaker must be installed at convenient place normally accessible to the operator.
- 4) Use and store the instrument within the specified ambient temperature and humidity ranges as mentioned in this manual.

Mechanical Installation



- 1) Prepare the panel cutout with proper dimensions as show above.
- 2) Fit the unit into the panel with the help of clamp given.
- 3) The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oils steam, or other unwanted process by products.
- 4) Use the specified size of crimp terminal (M3.5 screws) to wire the terminal block. Tightening the screws on the terminal block using the tightening torque of the range of 1.2 N.m.
- 5) Do not connect anything to unused terminals.

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.
- 3) Fusible resistor must not be replaced by operator.

Note: