OPERATING INSTRUCTIONS
FPR602

FEATURES
- Monitoring frequency of single phase.
- Trip delay range
  0, 0.2, 0.5, 1,2, 4, 6, 7, 8, 9 seconds
- Adjustable under and over frequency
- Two output relay
- LED indication

SPECIFICATIONS
FUNCTION
Monitoring frequency of single phase system

SUPPLY VOLTAGE(Vn)
240 VAC(50 Hz)

SUPPLY VARIATION
±30% of Vn

FREQUENCY TRIP LEVELS
50 Hz Nominal Frequency
Under Frequency
40, 41, 42, 43, 44, 45, 46, 47, 48, 49 Hz
Over Frequency
51, 52, 53, 54, 55, 56, 57, 58, 59, 60Hz

TRIP TIME DELAY (SECONDS)
0, 0.2, 0.5, 1, 2, 4, 6, 7, 8, 9

HYSTERESIS

Hysteresis	UF & OF Trip level settings
+2 Hz	40 to 45 Hz
-2 Hz	55 to 60 Hz
+1.5 Hz	46 Hz
-1.5 Hz	54 Hz
+1 Hz	47 & 48 Hz
-1 Hz	52 & 53 Hz
+0.5 Hz	49 Hz
-0.5 Hz	51 Hz

RELAY RATING
Trip Relay
1 SPDT 5A@250 VAC/ 24 VDC
Fail Safe Relay
1 SPST 5A@250 VAC/ 24 VDC

ACCURACY
±0.5 % at constant condition

RESET
Auto reset(on removal of fault condition)

OPERATING TEMPERATURE
0 to 50 °C

RELATIVE HUMIDITY
95% (non-condensing)

MOUNTING
Din rail mounting(35mm)

WEIGHT
130 gms

SAFETY SUMMARY
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.

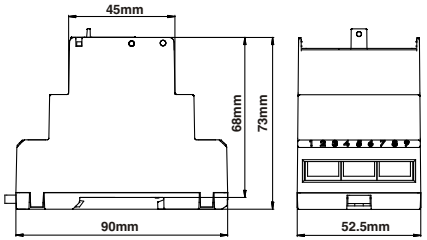
⚠ **CAUTION:** Read complete instructions prior to installation and operation of the unit.

⚠ WIRING GUIDELINES
1. To prevent the risk of electric shock power supply to the equipment must be kept OFF while doing the wiring arrangement.
2. Wiring shall be done strictly according to the terminal layout with shortest connections. Confirm that all connections are correct.

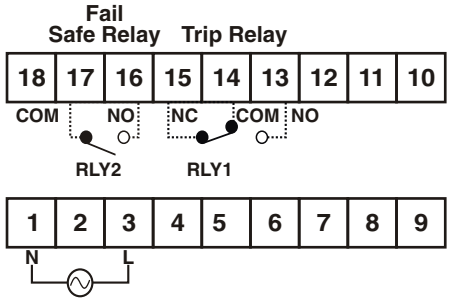
⚠ CAUTION
1. To ensure the safe operation of unit, check the wiring and connections.
2. It is recommended to test the unit periodically to satisfy the regulations.

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.

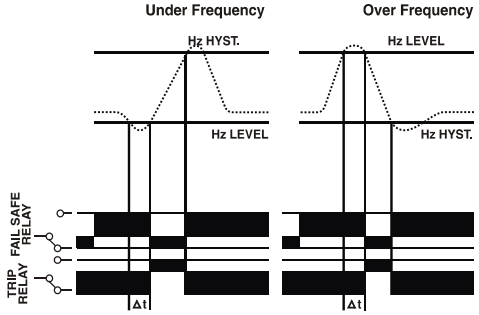
DIMENSIONS (All dimensions in mm)



TERMINAL CONNECTIONS



TIMING DIAGRAM



LED INDICATION CHART

Conditions	OK LED	UF LED	OF LED	Trip Relay	Fail Safe Relay
Normal	On	Off	Off	De-Energised	Energised
Under freq. during trip time delay	Off	Flash-ing	Off	De-Energised	Energised
Under freq. after trip time delay	Off	On	Off	Energised	De-Energised
Over freq. during trip time delay	Off	Off	Flash-ing	De-Energised	Energised
Over freq. after trip time delay	Off	Off	On	Energised	De-Energised

INSTALLATION & OPERATION

1.Connect the unit as shown in the terminal diagram
2.Set trip level & trip time delay
3.Apply power and refer the LED indication chart if the unit fails to operate correctly.

(Specifications subject to change as development is a continuous process).

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