

**MURICKENS GROUP**  
**MURICKENS MARKETING SYSTEM LLP**  
**SINCE 1975**  
**KADUTHURUTHY, KOTTAYAM**  
**ISO 9001:2015**  
**Helpline: 9447366779**  
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## **FLYLINE HIGH AND LOW VOLT DIGITAL ELECTRIC PROTECTOR**

Murickens Group is an ISO certified company, since 1975. manufacturing and supplying voltage stabilizing units, solar power generating products, and refrigeration products with international quality standards. Maintaining various international quality certificates, we received business achievement award in 2018 for product quality, service support and customer relationship from honorable state Governor. Murickens Group have two registered trade brand names; MG& FLYLINE. In 1990, we stepped into electronics and real estate field. We launched our products like low & under self-healing digital protector inverter, off line & online UPS, solar off grid inverter, solar grid-tie inverter, step down transformer, solar street light, solar charge controller, etc. in the name of 'FLYLINE'. At the same time, we launched another registered brand name 'MG'.

Flyline Modular Digital Over & Under Voltage Protector (FDP) is one of the best electrical safety device from Murickens Group. It safe guarding all costly home appliances like cctv, security alarm systems, laboratory equipment's, computer etc. from lightening and voltage variations due to natural calamities. FDP is an advanced device with latest German Technology. Voltage variation in power supply will cause damage to our home appliances. FDP protecting all appliances from voltage cut off, low voltage cut off and time delay can be set. All these functions user can set and self-healing. The electrical protecting equipment's available in the market defects like no outstanding, the system will not work if earthing is not proper and once it is off. we have to put it on manually. FDP is switching "off" and switching "on" automatically. Even if you are not in the house the FDP is taking care of all appliances, cctv security alarm system etc. FDP is an ideal equipment for located houses of NRI's. The FDP will act if the following occurs

(1) .Phase sequence disorder ( optional ), (2) .Phase unbalance. (3) .of neutral line.(4) .Breakage of any line level.5) .Over under voltage is any phase line.(6) .FDP can be fixed in ma5in distribution board easily





**TECHNICAL SPECIFICATION OF SINGLE PHASE FLYLINE MODULAR DIGITAL OVER & UNDER VOLTAGE PROTECTOR**

Model	FDP-1 PHASE	FDP- 3 PHASE
Number of Poled	1 P	3P
Rated Voltage (V)AC	220	220
Rated Current (A)	32   63	32   63
Loading Power (KVA)	7 KVA   14 KVA	20 KVA   40 KVA
Over-Voltage Cut-Off Value(VAC)	230-270 adjustable ( 400 V short time)	230-270 adjustable
Time Delay(s)	0.01 seconds	0.01 seconds
Under-Voltage Cut-Off Value(VAC)	120-210 adjustable	120-210 adjustable
Time Delay(s)	0.1 seconds	0.1 seconds
Dimensions(MM)	84*52*75(L*W*H)	85*90*75(L*W*H)


Self-Power Consumption(W)	≤ 3w	≤ 3w
Ambient Temperature (C )	-20-+40	-20-+40





### INSTRUCTION FOR USE:1 PHASE


1. This button:  for displaying the voltage (3 phase or 1 phase )Press the button for 10s to switch to single phase voltage indicating.
2. The second button:  :delay time setting. Press the button for 10s until the decimal point flashes. Then press button "+" or "-" to set the delay time(5-600s)
3. The third button  under voltage value setting. Press the button for 10s then the decimal point of digital panel flashes. Then press “ + ” or “ - ”to set the voltage (120-210V)
4. The fifth button  : over voltage value setting. Press the button for 10s, then the decimal point on digital panel will flash. The press “ + ” or “ - ”to set the voltage ( 230-270V)

## INSTRUCTION FOR USE:3 PHASE

1. This button :  for displaying the voltage (3 phase or 1 phase) Press the button for 10s to switch to single phase voltage indicating.

2. The second button :  :delay time setting. Press the button for 10s until the decimal point flashes. Then press button "+" or "-" to set the delay time(5-600s)

3. The third button  under voltage value setting. Press the button for 10s then the decimal point of digital panel flashes. Then press "+" or "-" to set the voltage (120-210V)

4. The fifth button  : over voltage value setting. Press the button for 10s, then the decimal point on digital panel will flash. The press "+" or "-" to set the voltage ( 230-270V)  
press the fourth button ,the last time fault voltage will be displayed in 2 seconds .The lights indicate the fault phase

## FAULT INDICATION

### 1.Wire Connection Error

Flashing letters CBA on the board indicates phase sequence error .Change connecting sequence of the live lines to solve this problem.(if OPO appears first and then CBA flashes. Please check if the neutral line and live line where reversely connected.)

### 2.Phase Loss

OPO :Lack of neutral line.▶:OPA : Lack of Phase A live line.▶:OPB Lack of Phase B live line.▶:OPC Lack of Phase C live line

The display board is not lighted: lack of 2 or 3 phases of live lines

3.Phase Imbalance: H-L appears when voltage difference between any two phases is over 35%(>77V)

4.Over Or Under Voltage Protection: H and L on the left ,center and right of the indicating board stand for over voltage and under voltage of phase A ,B and C respectively.

**We have thousands of satisfied customers in India and different parts of the world. Our valued and reputed clients list includes, The Agricultural University Malapuram, International Airport Karipoor, Marine Fisheries Dept of India, Vallarpadam Container Terminal (IGTPL), TCS Info Park Cochin, The CISF 7th Battalion Military Cam Chennai, Command hospital Chandimandir, St.Ursula hospital Pune, Dept. of Space Sreeharikotta, Birla research institute,etc which are only a handful among our highly reputed clients in addition to a lot of other private organizations..**

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Our YouTube channels: - <https://www.youtube.com/c/solarpowermurickensgroup>  
<https://www.youtube.com/user/murickens>

Under the name **MG** and **FLYLINE**, MURICKENS GROUP is a company with experience and credibility in the manufacture and marketing of electronic and electrical products.



MG Servo Voltage Stabilizer, Solar Water Heater, Deep Freezer, Mobile Mortuary, Mortuary Chamber etc.



Solar On Grid , Off Grid & Battery Less Grid Compensating Inverter, Solar Street Light Garden Light, Online & Off line UPS, Solar Panel, Solar Charging Controller, 110V Step Down Stabilizer, Solar Battery, Modular Voltage Protector .

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