

## Servo Controller-Digital

BPS Servo Controller -Digital is total metering and control solution for servo manufacturers. This reduces production overheads like wiring and testing and increases production rate of the voltage stabilizers. Designed with latest micro-controller technology the servo controller integrates multi parameter meters and servo AC synchronous motor controller driver.



- **Multi parameter class 1 digital panel meter with display of Input Voltage, Output Voltage, Output Current**
- **Full integrated AC synchronous Triac based servo motor driver**
- **Wide Aux Supply from 85-265 V AC**
- **Individual Fault display with LEDs**
- **Audio / Visual Alarm Annunciator with Acknowledge / Silent**
- **User programmable parameters: On-Delay, Under Voltage, Over Voltage, Over Load, Output voltage, CT Ratio, Hysteresis.**

## Battery Charger Controller

Charger controllers automatically controls the charging by varying phase angle of the step down transformer. It protects the charging system from Over load and Reverse battery connection.



## Water Level Controller

**BWL2T1PS** keep constant watch on the water level and switch **ON** or **OFF** the pump motors subject to availability of water at the reservoir and requirement level set at the upper tank.

- **No dry run of motor**
- **No over flow of water:**
- **AUTO/MANUAL/OFF Selection:**

**Indications:**

- A) MAINS
- B) LOW R
- C) FULL T
- D) PUMP

**Direct operation:**

**BWL2T1P** for Up to 2 H.P. 1 Ph. Phase  
**BWL2T1PS** for 3 phase motors  
 (connect with existing starter)



## Liquid Level Controller

**PWLC2T2L** liquid level controller is specially designed for automation of pump motors and alarm actuation. It is suitable for panel mounting. Pump is switched **ON** or **OFF** subject to availability of water at the reservoir and requirement level set at the upper tank.

**Indications:**

The controller is provided with following LED indications:  
 PUMP ON, LOW TANK, FULL TANK, MAINS ON



## Sensors Accepted

- Conductivity sensor: PSC-2
- Magnetic float: PSFM-1
- Weight floating: PSFW-2

## Alarm Annunciator

Annunciator is helpful to understand instantly from one place, the abnormal conditions of different process parameters i.e. Temp. Pressure, Tripping of any monitor relays.

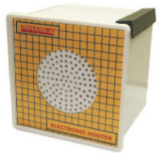


The system design is based on latest microcontroller technology providing highest degree of reliability, ruggedness, flexibility, economy and aesthetics.

It has built in Push switches for TEST, ACCEPT, RESET and Small pizzo buzzer. Test push is for instant verification of entire system. This triggers signal of all fault conditions resulting in flashing of all windows and actuation of hooter. External push switches and hooter can be connected through back connection.

## Electronic Hooters

Based on Solid State IC technology Electronics hooters suitable for control panel / control desk and other alarm annunciation boards with many unique features.

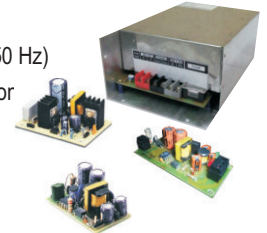


- **LOW POWER CONSUMPTION**
- **STANDARD HOUSING(96 X 96)**
- **AUTO SOUND SELECTION ON FAULT CONDITIONS**

## SMPS/ Chargers

**Features:**

- Universal Input range (85 ~ 265 VAC, 50 Hz)
- Undervoltage and Overvoltage protector
- Over Load and Short circuit protection
- Low working temperature.



## Digital Panel Meters

**Features:**

- Crisp, Bright, Flicker-free LED Display
- Pre-calibrated meters
- Latest LSI IC technology
- Auto Polarity and Auto Zero
- Compact Design
- Robust Terminals
- Solid-state circuitry



**Parameters:**

AC Volt, DC Volt, AC Current, DC Current, Frequency,

## Digital Multi Parameter Meters

- **AC Ampere 3Ø**
- **AC Volt 3Ø**
- **VAF Meters 1Ø**
- **MFM Meters 1Ø**
- **VAF Meters 3Ø**
- **DC Multi Function**
- **AC Multi Function**
- **ETC.**



## Auto Load Changeover Cum Current Limiter

are high precision system for efficient distribution of generator power in multi-storied apartments, commercial complexes. They connect mains supply to load till mains is present & on receiving generator power, it connects the load to DG supply.

During DG operation, load drawn is monitored. If the load exceeds the allotted limit, it disrupts the supply. For different applications, these are available in wide ranges.



## Auto Load Limiter

For distribution centers having very limited energy but still load is to be shared with number of out lets, these Load Limiter are ideal control unit. Very economically priced, these find application in Rural distribution centers/ Solar energy system in rural areas.



## Timer

Wide variety of Timers in different auxiliary supply voltage are available to suit different applications.

### Modes Available:

ON delay, OFF delay, Cyclic, ON&OFF Delay combined, Long duration, Star-Delta, etc.

### Housing:

DIN Rail, Flash Mounting : 96x96, 72x72, 96x48

*Micro controller based programmable timers with LED display also available.*



## Auto Light Controllers

Detects availability of natural lights and switches ON/ OFF lights automatically. Optional built in OFF delay timer is also available.



## Queue Management Systems

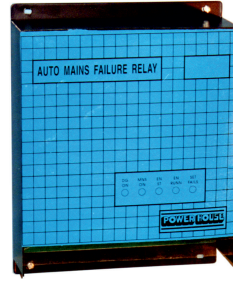


iQMS is specially designed queuing system for effective management of queues in OPDs of hospitals. The system is designed keeping in mind the common problems of handling large number of patients to be attended by a number of Doctors in an OPD. It incorporates advanced technology for data

communication, control and display ensuring excellent reliability.



## AMF Relay



AMF relay is designed to make AMF panel reliable, simple, and easy to operate. It has built in Mains voltage Sensor, incoming delay timer, starting attempt timer with ON delay and OFF delay, 3 Attempt and lock, DG voltage sensors, counters, logic control etc. Incoming High Voltage supplies are isolated by opto-couplers and out put connections are through electrotechnical relays. The relay does not require any

separate power supply. It works on DG set starting battery.

## Voltage Monitoring Relay AC 1 & 3 Phase & DC

Detects situation of Under voltage and Over voltage in the electrical system. The relays have ON delay and Trip Delay timer. Voltage and Trip Delays are adjustable from the front panel.

**Enclosure** is DIN-Rail Mounting and Panel mounting. Available in different supply voltages.



### Adjustable Parameters:

Under/ Over Voltage, Trip time Delay, Power ON Delay, Reset: Auto /Manual.

## Current Monitoring Relay AC and DC

### Function

Detects situation of Over Current and actuates trip/alarm circuit.

### Application

Float cum boost Battery chargers for power plants, Aux. supply, DC sources and power supplies for telephone Exchanges etc.



## AC & DC Earth Fault / Leakage Relay

The Relay detects any leakage current in the network and actuates alarm/trip circuit.

**Application:** Any installation with AC line distribution networking like Mines, Factories, Power Plants, Shopping Malls, Railways- Air Stations, Public Places. Etc.



## Motor Protection Relays

These relays are designed for protection of motors from phase failure and overload. The input current of the motor is sensed by the specially designed CTs. Suitable CTs are available according to motor rating.

### Adjustable Parameters:

Over Load, Trip Delay, Phase Drift



## Nurses Call Monitor Systems

NCMS is a solid state call indication monitoring system for Hospitals and Nursing Homes. The system is designed with utmost reliability, dependability and safety features in mind.



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