

COMPUTERISED PUMP CONTROL PANEL (MICROPROCESSOR)

Automatic or manual operated. LED Display

APPLICATION

- Borehole pumps: Automatic water supply, Irrigation, filling tank.
- Submersible pumps: Automatic sewage and waste water pumping from sump, audio / visual alarm for reaching high level.
- Centrifugal pumps: Used in various industries like agriculture, water supply, chemical, pulp and paper, fertilizer, petrochemical etc.

DESIGN FEATURES

- Adjustable “Over Current” (Overload) and “Under Current” (Run Dry) protection
- Protection from “Short Circuit” and “Phase Failure”
- Built-in High level audio visual alarm
- Count display for pump showing total hours run and total number of starts

TECHNICAL FEATURES

- Made of heavy duty ABS plastic with transparent hinged cover and separate terminal box with cover. Both covers have “O” ring seal for water integrity.
- A single 1 Phase panel can operate pump up to 2.5 kW/20A DOL a 3 Phase panel can operate pump up to 7.5 kW/20A DOL ratings, no need to have different panels for different ratings.
- Over Current (Overload) and Under Current (Run Dry) values for pumps can be set or changed at any time to suit actual current drawn by motors. These values are protected by digital code lock.
- AUTO pump operation with signal from float or pressure switch. Facility to operate pump in manual On/Off mode.
- Facility for signal from second float or pressure switch typically used for high level indication in sump while pump still operates.
- Safe low 12V DC control circuit for float / pressure switch.
- Audio / visual alarm activation for any fault / tripping of motor.
- Easy to read digital display of following status;
 - Continuous display of Actual current drawn by the motor when operating (no need for additional ammeter)
 - Over current fault (displayed as “OC” with audio alarm)
 - Under current fault (displayed as “UC” with audio alarm)
 - Short circuit fault (displayed as “SC” with audio alarm)
 - Standby ready to operate in AUTO mode (displayed as “SdbY”)
 - Manual mode On / Off (displayed as flashing “On” or “OFF”)
 - High level sump / tank (displayed as “HL” with audio alarm)
 - Total no. of “Hours Run” and “No. of starts” (Recorded in memory and can be displayed by push of a button)
 - Volts free contacts available for Building Management System or remote monitoring



COMPUTERISED ALTERNATING TWIN PUMP CONTROL PANEL (MICROPROCESSOR)

Automatic or manual operated. Two pumps with alternating duty cycle and LED display for each pump's status

APPLICATION

- Automatic Twin Booster Pumpset: Water supply to large establishments on demand, Irrigation.
- Automatic Twin Submersible pumps: Sewage & Waste water pumping from sump / tanks, with Audio/Visual alarm on reaching high level.

DESIGN FEATURES

- Adjustable "Over Current" (Overload) and "Under Current" (Run Dry) protection
- Protection from "Short Circuit" and "Phase Failure"
- Built-in High level audio visual alarm
- Count display for each pump showing total hours run and total number of starts



TECHNICAL FEATURES

- Made of heavy duty ABS plastic with transparent hinged cover and separate terminal box with cover. Both covers have "O" ring seal for water integrity.
- A single 1 Phase panel can operate Two pumps up to 2.5 kW/20A DOL a 3 Phase panel can operate two pumps up to 7.5 kW/20A DOL ratings, no need to have different panels for different ratings.
- Over Current (Overload) and Under Current (Run Dry) values for pumps can be set or changed at any time to suit actual current drawn by motors. These values are protected by digital code lock.
- AUTO single pump operation with "Alternating Duty" and twin parallel pump operation by signals from float or pressure switches facility will operate any pump at any time in manual On/Off mode.
- Facility for signal from third float or pressure switch typically used for high level indication in sump while pumps still operating
- Safe low 12V DC control circuit for float / pressure switches.
- Audio / visual alarm activation for any fault / tripping of motors.
- Easy to read digital display for each pump of following status
 - Continuous display of Actual current drawn by the motor when operating (no need for additional ammeter)
 - Over current fault (displayed as "OC" with audio alarm)
 - Under current fault (displayed as "UC" with audio alarm)
 - Short circuit fault (displayed as "SC" with audio alarm)
 - Standby ready to operate in AUTO mode (displayed as "SdbY")
 - Manual mode On / Off (displayed as flashing "On" or "OFF")
 - High level sump / tank (displayed as "HL" with audio alarm)
 - Total no. of "Hours Run" and "No. of starts" for each pump (Recorded in memory and can be displayed by push of a button)

ELECTRONIC WATER MONITOR

Multi function alarm and / or control panel for Unisan, Multisan and Sanistar sewage and waste water pumps

APPLICATION

Packaged pump systems are often subject to misuse in commercial or domestic or tenancy situations and may have flooding problems causing property damage purely because the users are not familiar with their operation. The Electronic Water Monitor features a range of connection options and protection methods to provide failsafe non-flooding solutions.

DESIGN FEATURES

- Power on / off switch
- High level alarm actuation / mute
- 24 VAC solenoid valves control water supply isolation
- Volts free contacts for Building Management System
- 230v, 1 phase output power interruption to washing machine and dish washer etc
- Auto / Manual override switch
- Low voltage control circuit
- Built-in protection to unit against high or low power supply voltage
- All conditions reset to normal when the level of water reduces in the holding tank
- Systems may be easily retrofitted
- Can be adapted to suit wet wells, water supply with dual tanks etc...

TECHNICAL FEATURES

- Connect the high level sensor contacts in Unisan & Multisan pumps, or the normally open volts free contacts in pump control panel of Sanistar pumps, to the high level alarm terminals of Electronic Water Monitor. Supply 230V AC power to Electronic Water Monitor.
 1. When high level is reached in the pump collection tank an audible alarm in Electronic Water Monitor will sound & alarm LED will lit.
 2. If 24V AC output from Electronic Water Monitor is connected to the solenoid valve/s installed in water supply lines, then the solenoid valve/s will close preventing water supply to toilets, taps, showers, dishwashers etc. and will prevent any more wastewater going to pump and avoid flooding. Or will open a solenoid valve in a cold water line preventing excess temperature in Unisan.
 3. If 230V AC output from Electronic Water Monitor is connected to dishwasher or washing machine then this power supply will be automatically interrupted switching off the machine. This will prevent any more wastewater going to pump and avoid flooding.
 4. You can use the Volts Free Contacts provided in the Electronic Water Monitor to get high level fault signals to your Building Management System.



HIGH LOW LEVEL ALARM

Audio – Visual High / Low level alarm for use with sewage and waste water sumps or water tanks

APPLICATION

- Flooding / Spilling of hazardous sewage and waste water due to submersible pump failure or overflowing of potable water from the holding tank can happen if there is no prior warning to the user.
- Wallace Pumps have produced the Electronic High / Low Level Alarm system. It will give a prior audio-visual warning of the possible overflow so remedial action can be taken.



DESIGN FEATURES

- High or low level audio / visual alarm actuation by float switch (10m cable)
- High Intensity Flashing LED Indication for “Alarm On”
- LED Indication for “Power On”
- Audio Buzzer sound activation for alarm on
- “Mute” switch on panel to stop the buzzer sound only
- Set of Volts free contacts for Remote Alarm or Building Management Systems
- Safe Low Voltage (12V DC) control circuit for float / pressure switch
- Standard 230V, 1 Phase, 50 HZ power input to unit
- Can be used as High / Low Pressure Alarm system by using a standard pressure switch as sensor instead of float switch

TECHNICAL FEATURES

- Installation of a float switch at required level in the sump/tank. Float switch wires to be connected to the installed Alarm panel. 230V, 1Ph power supply to be connected to Alarm Panel.
 - The alarm panel will automatically activate the alarm
 - Panel starts flashing the high intensity “ALARM ON” LED
 - The volts free contacts in the panel will close giving signal to remote alarm or Building Management System if connected.
 - The alarm can only be stopped by pressing the “MUTE” switch on the panel. The rest of the features will remain activated until the level goes back to normal and the float switch contacts are open
 - All features automatically reset to original settings when the level goes back to normal and the float switch contacts are open.
 - Alarm system can be easily retrofitted to existing sump / tank.
 - Alarm system can be used to avoid high / low pressure by using a pressure switch instead of float switch.