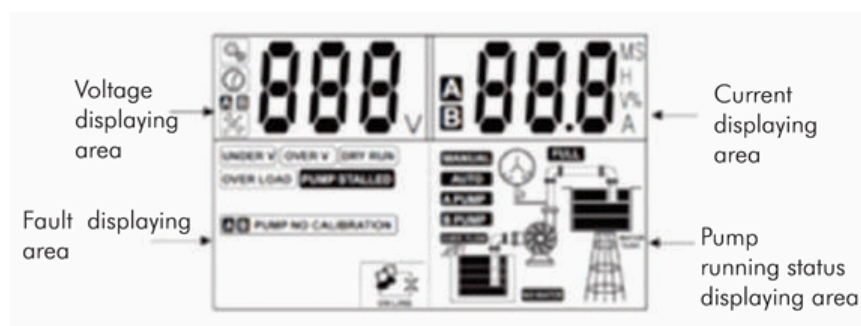
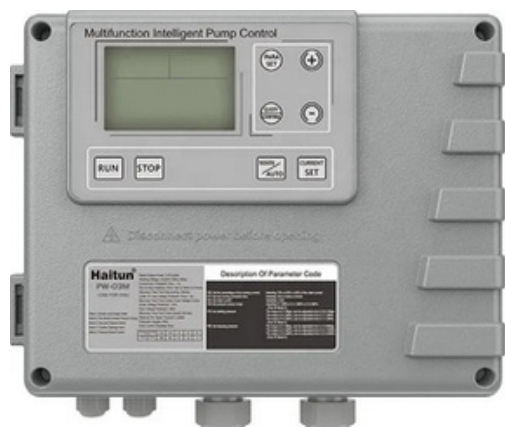


Benax Eguard

Intelligent Pump Controller



BENAX EGUARD is a multifunctional intelligent controller designed for a wide variety of operating conditions ranging from; borehole pumping systems, water boosting systems and general water supply applications. They are fitted with a digital display that indicates system operation and fault parameters and can be programmed using panel buttons for various functions.

The particular features of these controllers include:-

- Multifunction LCD display indicating pump operating status, voltage, current value, fault indication and running hours.
- Built in AC Contactor and Air Breakers Protection.
- Inbuilt protection for; motor current overload, phase loss, voltage im-balancing, over/under voltage, phase reversal and pump short cycling.
- In built protection for dry-running or level sensor connections for electrodes, float-switch and pressure switches.
- Pump start and stop determination by different current levels and pressure settings.
- Digital connectivity interface for BMS application - Connection via (MODBUS RS485 Communication port).
- Five working modes; with pressure sensors, with float switch, liquid level sensor with mechanical pressure switch and electrical contact pressure gauge.

OPERATING CONDITIONS

Enclosure Class: IP54

Relative Humidity: 20% - 90%

Temperature Range: 25 °C - +55 °C

Power Supply: 415 V±15% - 3PH

CONTROLLER DATA

| Controller Model | Motor Size (KW) | | Working Voltage Range | Dimensions (mm) | | | Weight (Kg) |
|-----------------------------------|-----------------|-----|-----------------------|-----------------|-------|-------|-------------|
| | Min | Max | | Height | Width | Depth | |
| BENAX EGUARD T5 0.75KW- 2.2KW 3PH | 0.75 | 2.2 | 220-240v | 302 | 240 | 120 | 3 |
| BENAX EGUARD T5 0.75KW- 4KW 3PH | 0.75 | 4 | 380-415v | | | | |
| BENAX EGUARD T10 5.5KW- 7.5KW 3PH | 5.5 | 7.5 | 380-415v | | | | |
| BENAX EGUARD T5 2.2KW- 11KW 3PH | 2.2 | 11 | 380-415v | | | | |
| BENAX EGUARD T5 2.2KW- 15KW 3PH | 2.2 | 15 | 380-415v | | | | |

SALIENT FEATURES

- It is applicable for automatic level float switch, pressure control and protection of three phase deep well pump and pipeline pump etc. started directly by 0.37-3KW
- Auto/ Manual control
- Five working modes: with pressure sensor; with float switch; with liquid level sensor; with mechanical pressure switch and with electric contact pressure gauge, suitable for various working condition;
- Under/ Over voltage protection
- Over circuit protection
- Short circuit protection
- Built-in start capacitor
- Built-in air breaker protector
- Current one key set automatically or manually
- Dry-running protection acting time adjustable (10 seconds, 3mins, 5mins), suitable for various pump and working condition
- Dry-running current value adjustable (70%, 80%, 85%, of rated current)
- PW-03MP option available for single phase controller with built-in ac contactor, suitable for deep well pump with 2.2-3KW and motor line within 400 meters.
- Dry-running protection with sensor free
- LCD screen displays voltage, current value;
- LCD displays fault information and alarm;
- It can be configured according to user's requirements.

TECHNICAL DATA

| | | | |
|--|--|---|---|
| Working voltage | AC2415V/50Hz/60Hz | Under-voltage operating voltage | 304v |
| Rated output power | 0.75 - 22kw | Over-voltage operating voltage | 437V |
| Locked-rotor Protection Time | 1 second | Over-current fault recovery time | 30minutes |
| Dry-running Protection Time | 10Seconds/3minutes/5 minuites optional | Distance for signal Transmit | 200m |
| Recovery Time from Dry-running | 30minutes | Protection Degree | IP54 |
| Under/Over Voltage Operating Time | 5minutes | Adaptive Pressure Sensor | DC5V working voltage/ 0.5-4.5V signal output type, range 0-1.0mpa, 0-1.6mpa, 0-2.5mpa can be selected |
| Under/Over Voltage Recovery time | 5minutes | | |