

Sr. No.	Parameter	Specification
1	Protection Design	UC Based
2	Supply Voltage	130-300V AC, 50Hz
3	Seven Segment Display	3 Digit
4	Pump Current Setting Scale	1-17A
5	Current Input	From CT
6	Overload Setting Range	120-160%
7	Overload Default Value	140%
8	Extreme Overload Current	Factory set 25A (For PC upto 12A); 32A (For PC above 12A)
9	Dry Run Setting Range	40-95%
10	Dry Run Default Value	70%
11	High Voltage Setting Range	250-285 V
12	High Voltage Default Value	275 V
13	-Low Voltage Setting Range	130-200 V
14	Low Voltage-Default Value	130 V
15	Overload Trip Time Delay Range	1s-60s
16	Overload Trip Time Default Value	15s ± 1s
17	Dry Run Trip Time Delay Range	1s-30s
18	Dry Run Trip Time Default Value	4s ± 1s
19	High/Low Voltage Trip Delay	5s ± 1s
20	Extreme Overload Trip Delay	1s
21	Power-ON Delay	10 to 300s
22	Manual Timer (only in Manual mode)	OFF-1 min to 720min
23	Cyclic Timer	1 to 999 Min(ON Time & OFF Time)
24	Dry Run Auto Reset Timer	15 to 300 Min
25	Time Compensation	OFF/ON
26	Real-Time Clock (RTC) Setting	HH, MM (00:00 to 23:59)
27	Motor-ON Time (t1)-only in Manual mode	HH, MM (00:00 to 23:59)
28	Motor-OFF Time (t2)-only in Manual mode	HH, MM (00:00 to 23:59)
29	Digital Voltmeter (Calibrated)	130-300 VAC ± 2%
30	Digital Ammeter (Calibrated)	0.5 to 60 A ± 2%



A RTC (Real Time Clock) timer ensures automatic pump ON/OFF as per time setting



Automatic ON/OFF to fill/empty one tank/two tank system with in-built WLC



A cyclic timer ensures pump ON/OFF periodically



Bypasses WLC function & allows user to operate motor irrespective of water level in tank



The time compensation feature allows the pump to make up for lost time during power supply failures in timer mode



Provides an upper tank full/lower tank empty indication for WLC operation

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Digital Single Phase Controller

While the main job of a pump controller is to turn the pump on and off, that's just part of its role. The primary purpose of a pump controller is to minimize or prevent damage to the pump itself, as well as to protect other components in the system. With features like automatic current setting, capacitor cutoff, and voltage setting, a pump controller can detect when something is wrong, helping to prevent costly repairs.

We offer innovative solutions for challenging single-phase pump applications, whether for household use or multiple tank systems. Our Digital Single Phase Controller (MR-Gi) is an advanced control system based on microcontroller technology, specifically designed for single-phase submersible pumps. It includes all the essential features needed for both domestic and agricultural applications.

Submersible Pump Protection

Think of pump controllers! And your first consideration is that the purpose of a controller is to turn the pump on and off. While this is true, it is only part of the story. Minimising or preventing damage to the pump is the primary reason for using a pump controller.



Easy to use and install



Sustainable

Saves Water and Electricity

Pump controllers can minimise or prevent non-pump damage as well. With features like automatic current setting, capacitor cut off, and voltage setting, a pump controller can "see" when something is wrong with the system.



Reliable



Low maintenance

User Friendly



Flexible and versatile



MR-Gi

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8	Extreme Overload Current	Factory set 25A (up to 2 HP); 32A (3 HP)
9	Dry Run Setting Range	40-95%
10	Dry Run Default Value	70%
11	High Voltage Setting Range	250-285 V
12	High Voltage Default Value	275 V
13	Low Voltage Setting Range	130-200 V
14	Low Voltage Default Value	130 V
15	OFF Timer	OFF-1min to 720min
16	Overload Trip Time Delay Range	1s-60s
17	Overload Trip Time Default Value	15s ± 1s
18	Dry Run Trip Time Delay Range	1s-30s
19	Dry Run Trip Time Default Value	4s ± 1s
20	High/Low Voltage Trip Delay	5s ± 1s
21	Extreme Overload Trip Delay	1s
22	Capacitor Cutoff Time Trip Delay	3s
23	Digital Voltmeter (Calibrated)	130-300 VAC ± 2%
24	Digital Ammeter (Calibrated)	0.5 to 60 A ±2%
25	Mounting	Wall Mounting
26	Dimension (WX HXD) mm	250 X 287 X 87
27	Weight	1850gm Approx



Hassle-free auto current setting ensures convenience



Through OFF Timer it switches OFF pump after a certain pre-set time interval



Bypass mode : This feature is essential in conditions such as bore cleaning



With Capacitor Cut OFF feature it cuts OFF start capacitor in cases where the ON push button is pressed for a long time, enhancing capacitor life



Settable - Overload range; Under voltage range; Dry run threshold