

Sr. No.	Parameter	Specification
1	Protection Design	$\mu$ C 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 $\pm$ 1s
17	Dry Run Trip Time Delay Range	1s-30s
18	Dry Run Trip Time Default Value	4s $\pm$ 1s
19	High/Low Voltage Trip Delay	5s $\pm$ 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 $\pm$ 2%
30	Digital Ammeter (Calibrated)	0.5 to 60 A $\pm$ 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



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



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



Shows reverse countdown of the time left for any timer setting



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**MR-Gi**      **MR-GiA**

## DIGITAL SINGLE PHASE CONTROLLER

OPTIMIZE YOUR SUBMERSIBLE PUMP PERFORMANCE

# MR-Gi Digital Single Phase Controller

The Digital single-phase controller is offered in three distinct variants to cater to a range of needs: MR-Gi, MR-GiA, and MR-GiB. The MR-Gi model is the manual version, designed for users who prefer control over the basic functions of their system. On the other hand, the MR-GiA and MR-GiB are equipped with automatic functionalities, enhancing convenience and efficiency. The MR-GiA variant is particularly advanced, featuring an in-built Water Level Controller (WLC) that automates water management. In contrast, the MR-GiB does not include a WLC, offering a simpler automatic option for users who do not require this feature.

All variants are equipped with an automatic load setting and a digital display that provides critical real-time data on various operational parameters such as voltage and current. This feature allows for better monitoring and management of the controller's performance, ensuring optimal functionality and helping to prevent issues related to electrical parameters. Whether for residential, commercial, or agricultural use, each controller variant is designed to offer tailored solutions, ensuring users have the right tools for efficient management of their single-phase systems.

## Range Available:

0.5 HP to 3 HP (Single Phase Applications Only)



Easy to use and install



Reliable and sustainable



Flexible and versatile



Low maintenance



# MR-Gi

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1	Protection Design	µC Based
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3	Seven Segment Display	3 Digit
4	Pump Current Setting Scale	1-17 A
5	Current Input	From CT
6	Overload Setting Range	120-160%
7	Overload Default Value	140%
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



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



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

## MR-GiB (Auto version W/O WLC)

› All features of MR-GiA, except WLC, are available