



**NIAGARA AUTOMATION  
& COMPANY**

# AUTOMATIC WATER PUMP CONTROLLERS AND MOBILE STARTERS



[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

### Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

### Automatic Pump Controller With

#### Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

- Mobile Controller with Starter
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## WELCOME TO NIAGARA AUTOMATION

Niagara Automation and Company, established in 2005 is a leading technology driven company based at Coimbatore. Our main objective is to provide a complete solution for **water management automation system** for Domestic, Industrial and Agriculture needs. Also the company has continuously imparted advanced technology from day to day basis for providing solutions to the various needs in the Domestic, Industrial and Agricultural sector. We are one of the leading Automatic Water Pump Controller manufacturing company. We are also the pioneers in bringing up the '**Mobile**' based Automatic water pump controller and Starters which has made a tremendous impact in the agriculture sector.

We also introduced India's most advanced GSM based Starter Controller with voice response system in various regional languages. We provide other customised products such as GSM Switch. **Customized timers** for Hoarding lights, Street lights, Remote lights and Commercial building lighting system. The company also has provided solution to **automation in Drip Irrigation system** for the Revolution in agriculture field. The company has its technology centre with dynamic young aspirants, thriving and willing to provide extreme quality in all our products with our team work.

### Controllers & Starters used for various sectors are as follows:

#### Domestic Sector:

- Single Phase Automatic Water Pump Controller

#### Domestic & Industrial Sector:

- Automatic Water Pump Controller
- Single Phase Submersible Automatic Water Pump Controller
- Three Phase Automatic Water Pump Controller
- Single Phase Submersible Automatic Water Pump Controller with Starters
- Three Phase Automatic Water Pump Controller with Starters
- Wireless Level Transmitter / Receiver

#### Domestic, Industrial & Commercial Sector:

- RO Plant Automatic Water Pump Controller
- RO Plant Automatic Water Pump Controller with Starters
- Customized Timers

#### Agriculture Sector:

- Mobile Automatic Water Pump Controller
- Mobile Automatic Water Pump Controller with Starters
- Automatic Water Pump Drip Irrigation



**NIAGARA AUTOMATION  
& COMPANY**

# AUTOMATIC WATER PUMP CONTROLLERS AND MOBILE STARTERS



[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

### Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

### Automatic Pump Controller With

#### Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

- Mobile Controller with Starter
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## ABOUT US

Scorching summers threatens our planet everyday and people in much dry land have started to honor water more than the most valuables in the world. We cannot imagine life without water and if it was so, it would be just a big round revolving the sun having soulless human history on its lap. It is a crying need to save every drop of water and energy, since it is a hope of life in future. This necessity has whipped us to invent water pump controllers with most recent technologies capable for cherishing water and energy.

The world knows there have been reasonable rates of failures in perfecting the inventions of such Automation of water pump controllers. Thanks to time and labour, we have crossed many barriers and at last developed fool - proof water pump controllers which can act like a human being but with out human being.

We have named it **"NIAGARA" - "The Spirit of Water"**

### The Automatic Water Pump Controller

What it does.....

As if you do

- It saves water and energy
- Such little savings of energy get collected to a mass of majesty
- Switches off the pump at overflow. Precious water is saved atlast
- Monitors the pump all by itself as we are in escapable out of routine office
- Inbuilt timers save precious time

"Water Water Water

Everywhere

But has to be saved for the

Birth of future

and

### Niagara does it"

Niagara manufactures Automatic Water level Controller / Water Pump Controller, Mobile starter for water pumps, etc.,

### Our Vision & Mission

To be the global leader in Water Management Solution and related Service. We will earn Customers trust through continuous improvement and quality driven by integrity, innovation and teamwork.

To help the nation Niagara's complete solution for water management automation system reduces scarcity and saves the water, manpower and electricity



**NIAGARA AUTOMATION  
& COMPANY**

# AUTOMATIC WATER PUMP CONTROLLERS AND MOBILE STARTERS



[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

### Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

### Automatic Pump Controller With

#### Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

- Mobile Controller with Starter
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## PRODUCTS

### A Complete Solution for Water Management Automation Systems

Niagara Automatic Water Pump Controller saves water and energy. It is a home automation product which maintains the water level and ensures the continuous water flow round the clock. Niagara Automation and Company believe in bringing the comfort in day-to-day life with the latest technology with cost effective. Niagara incorporates innovative features and futuristic design in the Automatic Water Level Controller.

Niagara Automatic Water Level Controller effectively monitors the water levels in overhead tank and sump. It prevents overhead tank from overflowing and also over pumping from sump, well etc. It allows the user to be free from the bother of switching the water pump ON and OFF and makes water available throughout the day.

#### Niagara Automatic Water Pump Controllers and Mobile Starters:

- Automatic Water Pump Controller
- Mobile Automatic Water Pump Controller
- Automatic Water Pump Controller with Starters
- Automatic Water Pump Drip Irrigation Systems
- Customized Timers
- Wireless Level Transmitter / Receiver





**NIAGARA AUTOMATION  
& COMPANY**

# AUTOMATIC WATER PUMP CONTROLLERS AND MOBILE STARTERS



[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

### Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

### Automatic Pump Controller With

#### Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

- Mobile Controller with Starter
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## TECHNICAL SPECIFICATIONS\*

Description		Niagara Water Pump Controller
Operating Voltage (AC)		1Φ - 150V to 270V 3Φ - 300V to 470V
<b>Operating Current for Load</b>		
Resistive Load		1Φ - 20 Amp 3Φ - 10 Amp
<b>Motor Rating**</b>		
Direct Load		1Φ - 20 Amp
<b>Indirect Load***</b>		3Φ - 10 Amp
Low volt cut off		1Φ - 160V - 200V 3Φ - 260V - 360V
High volt cut off		1Φ - 260V - 300V 3Φ - 470V - 500V
Operating Voltage for sensor	Float	12V DC
	Magnetic	12V DC
	Linear	12V DC
Calibration accuracy		+/- 2.5%
Dimension	Controller	350 X 150 X 110 mm / 335 X 150 X 80 mm
	Starter	550 X 470 X 150 mm / 410 X 290 X 125 mm

\* Specification is subject to change without notice

\*\* Subject to Special cable connection on request for above 15 HP - 3Ø pumps

\*\*\*Any starter coil current suitable to the given rating as in "Indirect load" connection method,it is to be used in conjunction with a motor starter.





**NIAGARA AUTOMATION  
& COMPANY**

# AUTOMATIC WATER PUMP CONTROLLERS AND MOBILE STARTERS



[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

### Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

### Automatic Pump Controller With

#### Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

- Mobile Controller with Starter
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## AUTOMATIC WATER PUMP CONTROLLER

### General Features

- Advanced Micro Controller Based Automatic water pump controller with attractive LCD display
- More than 30 models suitable for all types of pumps
- User friendly LED / LCD indications
- User Programmable timer settings
- User Programmable Voltage and current Settings
- Auto / OFF / Manual mode of operation

### Control Functions

- Switches OFF the pump when overhead tank is full when the sump tank is empty
- Switches ON the pump when over head tank is empty & when the sump has enough water

### Protection

- Low Voltage (LV) and High voltage (HV) Protection
- Current Sensing based Dry run and Overload Protection (CT)
- Sensor based dry run Protection (ST)
- Advanced Micro Control based Digital single phase Preventer (SPP), protects pump from:
  - Single Phasing
  - Phase Imbalance
  - Phase Reversal

### In-built Timers

#### Delay ON / OFF Timers

To switch ON the pump after specified delay time

#### Dry run Reset Timers (DRT)

When the pump has been switched OFF by dry run then the controller switch ON the pump after the specified time

#### Continuous Cyclic Timers (CYC)

To Switch ON / OFF the pump in a specific cyclic manner

#### Real time Cyclic Timers (RTC)

To Switch ON / OFF the pump in a specified real time

#### Maximum Run Timer (MRT)

To Control the maximum Run Time of the pump for the particular day

#### Starting Capacitor Timer (SCT)

To cut OFF the starting capacitor





**NIAGARA AUTOMATION  
& COMPANY**



# AUTOMATIC WATER PUMP CONTROLLERS AND MOBILE STARTERS

[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

### Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

### Automatic Pump Controller With

#### Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

- Mobile Controller with Starter
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## SINGLE PHASE SUBMERSIBLE AUTOMATIC WATER PUMP CONTROLLER

### General Features

- Attractive LCD / LED display indication
- Voltage readings, current readings with motor status
- User friendly timer settings, voltage settings, Dry run settings, overload settings for display model
- Auto / OFF / Manual mode operation
- Prevents overflow from overhead tank

### Suitable for

- Submersible pumps
- Openwell pumps (without starting capacitor)



Models	Controls		Available Protection For Pump					Available In-Built Timers					Display		Usable Sensor		
	Top Tank	Bot Tank	Low Vol.	High Vol.	Dry Run		Over Load	DRT	CYC	RTC	Delay ON	Max. RT	LED	LCD	F	M	L
SuperStar**	√	√											√		√	√	
1000 S	√	√			√	√					√		√		√	√	
1010 S	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
1000 SL	√	√			√	√					√		√				√
1010 SL	√	√	√	√	√	√	√	√	√	√	√	√	√	√			√
1010 S Double*	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		

### Note:

Can be connected with starter

\* Can be used for two pumps one is Submersible pump and another one is Single phase pump

\*\* Suitable for Semi automation only





**NIAGARA AUTOMATION  
& COMPANY**



## AUTOMATIC WATER PUMP CONTROLLERS AND MOBILE STARTERS

[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

## Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

## Automatic Pump Controller With

## Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

## Mobile Automatic Water Pump

## Controller

- Mobile Controller with Starter Kit
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## THREE PHASE AUTOMATIC WATER PUMP CONTROLLER WITH STARTERS

## General Features

- Attractive LCD / LED display indication
- Voltage readings, current readings with motor status
- User friendly timer settings, voltage settings, Dry run settings, overload settings for display model
- Auto / OFF / Manual mode operation
- Micro Controller based Digital Single Phase Preventer
- Can be connected without starter
- Prevents overflow from overhead tank

**Suitable for**

- Three Phase pumps (upto 7.5 HP)

[illegible]





**NIAGARA AUTOMATION  
& COMPANY**

# AUTOMATIC WATER PUMP CONTROLLERS AND MOBILE STARTERS



[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

### Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

### Automatic Pump Controller With

#### Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

- Mobile Controller with Starter
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## MOBILE AUTOMATIC WATER PUMP CONTROLLER

**Operate your pump from anywhere through mobile!**



### General Features

- India's Most advanced GSM based Mobile Controller with Interactive Voice Response System (IVRS)
- Regional Languages Select Option for voice response system
- Pump operation status:
  - Available voltage at the site
  - Pump load (current)
  - Motor ON / OFF status with real time
  - Power on status as feedback to customers through SMS
- User programmable timers settings
- User programmable voltage and current settings



### Control Functions

- The pump can be operated from anywhere through mobile
- Mobile / Auto / Manual / OFF mode operation

### Protection

- Low Voltage (LV) and High voltage (HV) Protection
- Current Sensing based Dry run and Overload Protection (CT)
- Sensor based dry run Protection (ST)
- Advanced Micro Control based Digital single phase Preventer (SPP), protects pump from:
  - Single Phasing
  - Phase Imbalance
  - Phase Reversal

### In-built Timers

#### Delay ON / OFF Timers

To switch ON the pump after specified delay time

#### Dry run Reset Timers (DRT)

When the pump has been switched OFF by dry run then the controller switch ON the pump after the specified time

#### Continuous Cyclic Timers (CYC)

To Switch ON / OFF the pump in a specific cyclic manner





## PRODUCTS

## Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

## Automatic Pump Controller With

## Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

## Mobile Automatic Water Pump

## Controller

- Mobile Controller with Starter Kit
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## MOBILE AUTOMATIC WATER PUMP CONTROLLER WITH STARTERS

## General Features

- India's Most advanced GSM based Mobile Controller with Interactive Voice Response System (IVRS)
- Regional Languages Select Option for voice response system
- Pump operation status:
  - Available voltage at the site
  - Pump load (current)
  - Motor ON / OFF status with real time
  - Power on status as feedback to customers through SMS
- User programmable timers settings
- User programmable voltage and current settings



## Control Functions

- The pump can be operated from anywhere through mobile
- Mobile / Auto / Manual / OFF mode operation

**Suitable for**

- All types of Three Phase Pump Starters

[illegible]







# NIAGARA AUTOMATION & COMPANY

[HOME](#) | 
 [ABOUT US](#) | 
 [TECHNICAL SPECIFICATIONS](#) | 
 [PRODUCTS](#) | 
 [CONTACT](#) | 
 [E - BROCHURE](#) | 
 [SITEMAP](#)




## PRODUCTS

### Automatic Water Pump Controller

-  Single Phase Controllers
-  Single Phase Submersible Controllers
-  Three Phase Controllers
-  RO Plant Controllers

### Automatic Pump Controller With

#### Starters

-  Single Phase Submersible Starters
-  Three Phase Starters
-  RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

-  Mobile Controller with Starter
-  Drip Irrigation System
-  Customized Timers
-  Wireless Level Transmitter
-  Level Sensors
-  Selection Table

## CUSTOMIZED TIMERS

### Automatic Lighting Controller - Model : 1000 LG (230V AC / 440V AC)

#### General Features

- Attractive LCD display
- User friendly LED indications
- User programmable timer setting

#### In-built Timers

- Continuous Cyclic Timer (CYC)
  - User Programmable four cyclic timers with separate ON / OFF time
  - Each timer functions independently
  - All the four timers can be operated in cyclic manner
- Realtime Cyclic Timer (RTC)
  - User Programmable four RTC timers with individual ON / OFF time

#### Suitable for

- To control compressor air valve changeover in cyclic mode
- To control street lights in RTC mode
- To control hoarding lights with RTC / CT mode
- To control Residential and Commercial lighting
- To control lighting system for Hotels, Hospitals & Educational Institutions





**NIAGARA AUTOMATION  
& COMPANY**

# AUTOMATIC WATER PUMP CONTROLLERS AND MOBILE STARTERS



[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

### Automatic Water Pump Controller

- Single Phase Controllers
- Single Phase Submersible Controllers
- Three Phase Controllers
- RO Plant Controllers

### Automatic Pump Controller With

#### Starters

- Single Phase Submersible Starters
- Three Phase Starters
- RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

- Mobile Controller with Starter
- Drip Irrigation System
- Customized Timers
- Wireless Level Transmitter
- Level Sensors
- Selection Table

## WIRELESS LEVEL TRANSMITTER / RECEIVER

### Interface Module for Automatic Water Pump Controllers



GSM based	RF Based
GSM (T / R) based wireless level Transmitter / Receiver	RF (T / R) based wireless level Transmitter / Receiver
<b>Advantages</b>	
<ul style="list-style-type: none"> <li>Easy to install</li> <li>No wiring required from top tank to pump controller</li> <li>Reliable Portable and compatible</li> </ul>	<ul style="list-style-type: none"> <li>Easy to install</li> <li>No wiring required from top tank to pump controller</li> <li>Reliable Portable and compatible</li> </ul>
<b>Transmission Range</b>	
<ul style="list-style-type: none"> <li>GSM switch has no range restriction on network availability</li> </ul>	<ul style="list-style-type: none"> <li>Outdoor - 1 km (LOS - Line Of Sight) Indoor - 200m</li> </ul>






**NIAGARA AUTOMATION  
& COMPANY**

[HOME](#) | [ABOUT US](#) | [TECHNICAL SPECIFICATIONS](#) | [PRODUCTS](#) | [CONTACT](#) | [E - BROCHURE](#) | [SITEMAP](#)

## PRODUCTS

### Automatic Water Pump Controller

-  Single Phase Controllers
-  Single Phase Submersible Controllers
-  Three Phase Controllers
-  RO Plant Controllers




### Automatic Pump Controller With

#### Starters

-  Single Phase Submersible Starters
-  Three Phase Starters
-  RO Plant Starters

### Mobile Automatic Water Pump

#### Controller

-  Mobile Controller with Starter
-  Drip Irrigation System
-  Customized Timers
-  Wireless Level Transmitter
-  Level Sensors

## AUTOMATIC WATER PUMP DRIP IRRIGATION SYSTEM

### Model : Drip Master 01

Drip irrigation has its root in agriculture, where in many parts of the world it was the only option available in the harsh climate & with limited water supply. By using drip irrigation farmers could inverse yields while lowering water use. In recent days Drip Irrigation is well trusted and is actively utilized in Agriculture, Commercial landscaping & residential gardening. In Drip Irrigation the valves has to be changed frequently to facilitate many different regions.

For effective water management with Drip Irrigation we have come up with advance technology to assist farmers with our Automatic Water Drip Irrigation System. We have named as "DRIP MASTER - 01"



### General Features

- Drip master has 16 programmable continuous cyclic timers. So that 16 valves can be controlled by a single controller.
- As per the customer requirements any of the valves can activated or de-activated individually.

### Advantages

- Reduces the man power
- It avoids the wastage of water by human error
- Maintenance free
- It saves electricity and water