



# KTronics®

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## AUTOMATIC WATER LEVEL CONTROLLER WITH LEVEL INDICATOR

### I9-DRT: Dry Run Timer

## ABOUT AUTOMATIC WATER LEVEL CONTROLLER WITH LEVEL INDICATOR

Ktronics controllers are specially designed for water level control and level indication purposes. It is developed with ease of use in mind, fit for all type of motors, simple and user friendly operations. Easy LED light front display for level indications and operational functions. Our controllers are designed with most advanced microcontroller loaded with efficient programs, it uses very less power for operations and provides more accurate performance. Alternative current based sensors made with SS316 and fully automated operation provides long life.

It has many intelligence features like level indication, Auto/Manual mode operation, dry-run protection, voltage surge protection, voltage level indications and Fill options, etc. These details are discussed details in the coming pages.

### 19-DRT: Dry Run Timer:

Conditions such as enough water is not available in any source water like bores, this model is operating water pump up to water flowing to overhead tank. When the water flow to overhead tank is stopped due to unavailability of water in the bore, the controller stops the pump and waits for a specified time and again switches ON the pump to supply water to overhead tank. This cycle shall be continued till the overhead tank becomes full. This provides easy operation of less water source pumps and saves time and frequent monitoring of tank levels. By this way, it provides complete automatic operation of less water source locations. Dry run time and wait times are different, controller should wait for predefined dry run time, which is 120 seconds default. Once dry run condition enabled, pump shall be kept OFF for predefined waiting time, which is defined by customer.



• **Real-time level indication**

Instantaneous four level LED indication on over head tank and three level indication on sump.

• **Fully automatic operation**

In this mode pump is operated, whenever water level becomes below half of the over head tank and it will be switched OFF While over head tank level is full or water in sump becomes below foot valve level.

• **Easy LED lights front display**

Front LED display provides easy identification Of its operations such as, auto and manual mode is indicated by Green and red LED respectively.

• **Voltage surge protection**

It has inbuilt voltage measurement facility and voltage level are indicated by LEDs such as, high, normal and low voltages. Pump is protected from high and low voltages by isolating it from power supply.

• **Dry run protection**

It has facility to monitor water flowing to over head tank, built in pump cut off provision safe guards it from dry run. Set of running LEDs indicates the flow of water to over head tank.

• **Easy user friendly operation**

Various operational modes such as auto and manual shall be enabled by soft touch switches provided on front display and it is indicated by LED lights. user can by-pass it by using rocker switch provided at side of the controller.

• **Manual mode**

In this mode pump Will be operated irrespective of sump level and dry run conditions. It will be switched off while tank level becomes full and automatically change over to auto mode.

• **Fill option**

Pump will operated in auto mode if the tank level is not full. This option is useful When the pump water is required.

• **Mute option**

Buzzer is activated to indicate dry run condition. It can be acknowledged by using mute button.

• **Easy installation**

The wall mounting , compact design makes the controller easy to install. It wears ABS body that makes it durable and long lasting.

• **Rocker Switches**

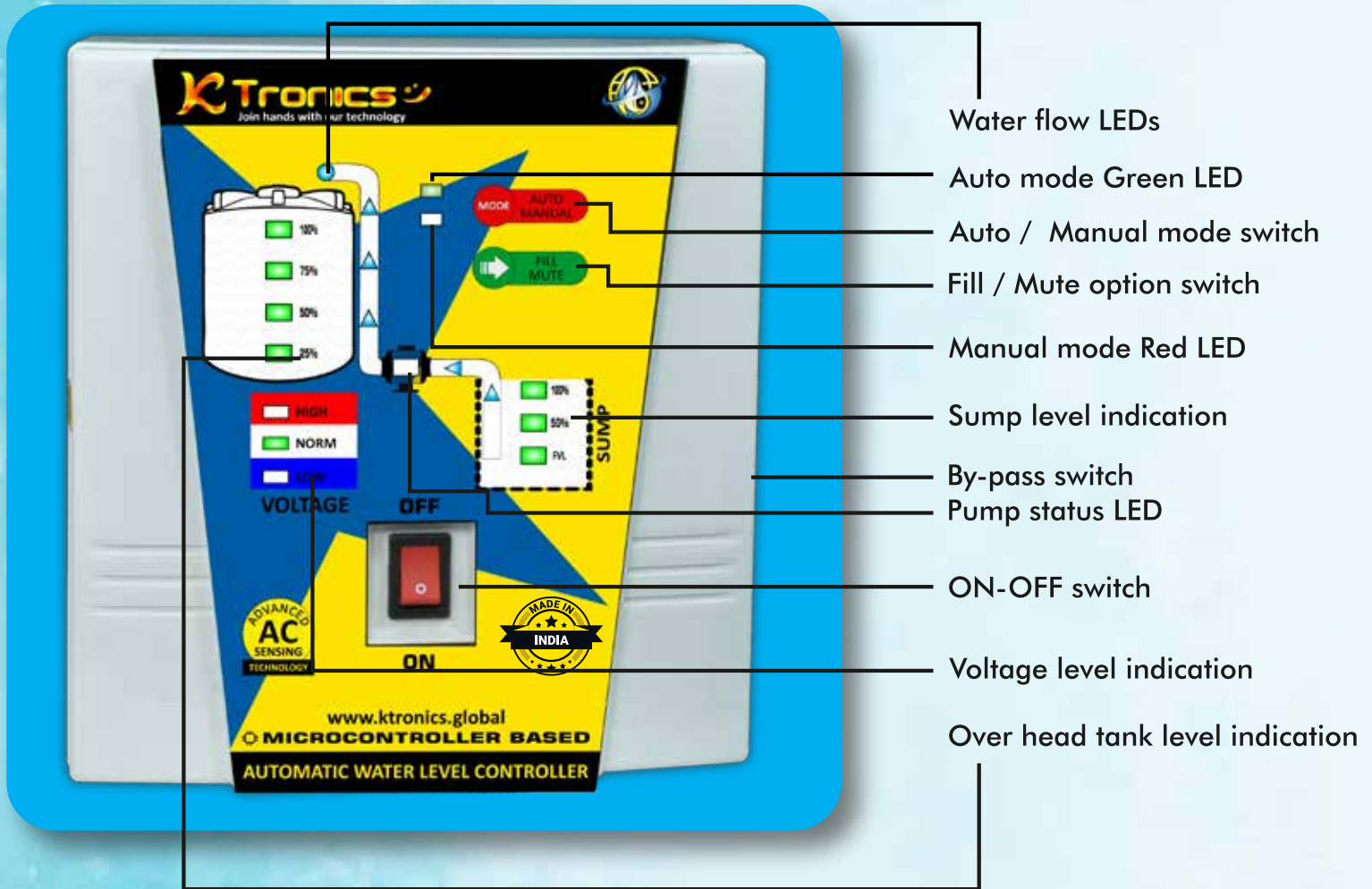
Rocker switches are provided for controller ON/OFF and By-pass option. This By-pass option provided to disable instrument control and pump can be operated manually using its routine ON/OFF switch. This will be helpful incase of controller defective, no need to wait for service engineer visit.

**Suitable for all type of pumps**



**Applications**

- **House**
- **Hotels**
- **Hospitals**
- **Educational Institutes**
- **Commercial buildings**
- **Industrial applications**



- Water flow LEDs
- Auto mode Green LED
- Auto / Manual mode switch
- Fill / Mute option switch
- Manual mode Red LED
- Sump level indication
- By-pass switch
- Pump status LED
- ON-OFF switch
- Voltage level indication
- Over head tank level indication

## Technical Specifications

<b>Operating system</b>	<b>: High performance, low power 8 bit microcontroller</b>
<b>Input voltage</b>	<b>: 240VAC, 50Hz or 440VAC for three phase</b>
<b>Surge protection</b>	<b>: Available</b>
<b>Dry run protection</b>	<b>: Available</b>
<b>Current rating</b>	<b>: 30A</b>
<b>Current consumption</b>	<b>: 6w</b>
<b>Sensor MOC</b>	<b>: SS316</b>
<b>Dimension</b>	<b>: 175x165x63mm</b>
<b>Body material</b>	<b>: ABS plastic</b>
<b>Weight</b>	<b>: 450 g</b>



# Thank you



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