

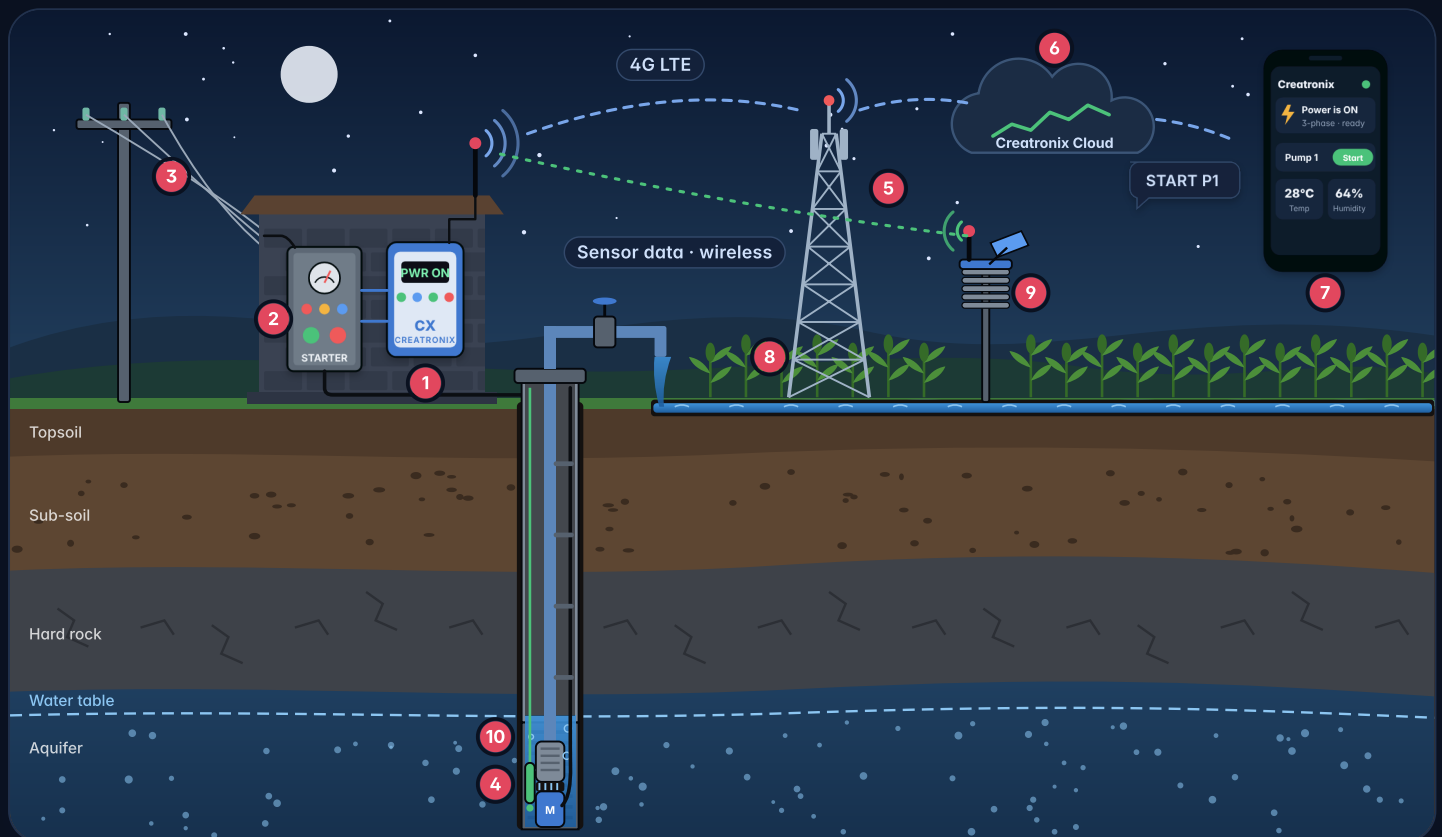


• Product 01 · Sensor Edition · Smart Irrigation + IoT

# Pump Controller with Sensors

Your pump controller becomes your farm's IoT gateway.

The advanced Pump Controller connects wireless sensors and carries their readings to the Creatronix cloud alongside pump data. Add a weather sensor today and a borewell groundwater-level sensor as it becomes available. No extra gateway to buy: you add only the sensor.



- 1 **Pump controller**  
4G + wireless gateway
- 2 **Existing starter**  
Controller drives it
- 3 **3-phase grid**  
Sensed continuously
- 4 **Submersible pump**  
Fully protected
- 5 **4G network**  
Carries pump + sensor data
- 6 **Creatronix cloud**  
Stores and trends readings
- 7 **Farmer's phone**  
Pump control + live readings
- 8 **Open field**  
Irrigate on real conditions
- 9 **Weather sensor**  
Temperature & humidity, wireless
- 10 **Groundwater probe**  
Level inside the borewell (upcoming)



## Built-in IoT gateway

Pump and sensor data over one 4G link.



## Temperature & humidity

Weather sensor in the field.



## Groundwater level

Probe dropped into the borewell (upcoming).

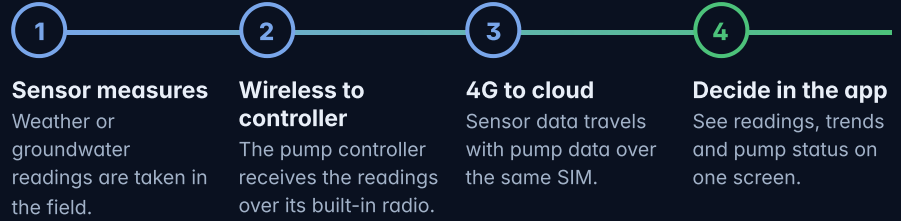


## Data in the app

Readings next to pump status and history.

**WHY IT MATTERS****Built for how power really reaches farms**

Deciding when and how long to irrigate is guesswork without field data, and a separate IoT gateway adds cost and another box to maintain. The pump controller is already on site, powered and connected, so it is the natural gateway.

**HOW IT WORKS****PROTECTION BUILT IN****Your motor is the most expensive part. We guard it.**

|                                                                                                                                                                                                                    |                                                                                                                                                                                                                  |                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Dry-run protection</b><br>Stops the motor when the borewell runs dry or the pump loses water, before the winding overheats.   |  <b>Rotor-stuck (locked rotor)</b><br>Detects a jammed rotor at start-up and cuts supply instead of letting the motor burn out. |  <b>Wire-cut &amp; single-phasing</b><br>Trips instantly on a cut cable or a missing phase, a leading cause of burnt submersible motors. |
|  <b>Over / under voltage</b><br>Holds the pump off while the supply is outside the safe band, and restarts only when it recovers. |  <b>Phase imbalance</b><br>Watches all three phases and protects the motor from unbalanced rural supply.                        |  <b>Overload / over-current</b><br>Trips on sustained over-current from choked pipes, sand or a failing bearing.                         |

**ADD ONLY THE SENSOR****Sensors you can add**

|                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Weather: temperature &amp; humidity</b><br><b>AVAILABLE</b><br>Mounted in the field on its own pole. Readings appear in the app with history. |  <b>Groundwater level</b> <b>UPCOMING</b><br>A probe dropped inside the borewell tracks the water table, so you see how your well is holding up. |  <b>More sensors</b> <b>ROADMAP</b><br>The same wireless gateway is designed to take further field sensors as they are released. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**AT A GLANCE****Key specifications**

|            |                                                          |
|------------|----------------------------------------------------------|
| Supply     | 3-phase agricultural pump starters                       |
| Network    | 4G LTE, built-in SIM slot                                |
| Control    | SMS commands + Creatronix mobile app                     |
| Scheduling | Hourly-duration irrigation schedules                     |
| Alerts     | Power ON / OFF, pump status, every trip                  |
| Gateway    | Wireless sensor link, data over the same 4G SIM          |
| Sensors    | Weather T/H now; groundwater level upcoming              |
| Protection | Dry run, rotor stuck, wire cut, voltage, phase, overload |

**GROWS WITH YOUR FARM****One platform, three steps**

|                                                          |                     |
|----------------------------------------------------------|---------------------|
| <b>1 Pump Controller</b><br>One pump, 4G, SMS + app      |                     |
| <b>2 Multi-Pump</b><br>Add a second pump on the same SIM |                     |
| <b>3 With Sensors</b><br>Becomes your farm IoT gateway   | <b>THIS PRODUCT</b> |

**Bring your borewell online.**

Talk to us about a demo, pricing or a field installation.

 [info@creatronix.in](mailto:info@creatronix.in) [creatronix.in](http://creatronix.in)