

# Irrigation Pump Remote Control ( 480VAC 3



Location **Wyoming**  
<https://www.genclassifieds.com/x-784567-z>

QR Code Link to This Post Tired of driving out to turn the pump on and off to change the water, un-hook ends, make repairs, and fix bad plugs? Worried about broken pipes causing floods, power loss in the middle of the night, or pipes that have come apart?

We were - so I constructed an RF ( Radio Freq ) remote control to turn on and off our irrigation pumps as well as monitor and notify us of any issues. The setup connects to most standard 3-Phase 480VAC pump panels. The purchase doesn't include the transducers required to monitor pressure and ditch water level; those can be purchased directly from the suppliers and easily wired to the Controller.

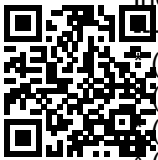



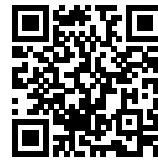
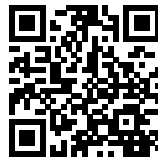


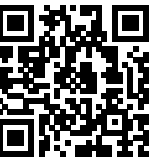

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**Features of this item**  
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- \* A solid rural 2-Mile range ( XBee RF claims up-to 28-mile range )
- \* No cellular, FCC licensing or other requirements are needed
- \* A single Hand-Remote can control multiple irrigation pumps
- \* Multiple Hand-Remotes can control the same irrigation pump
- \* Uses the Pump Panels "AUTO" selection; doesn't disturb manual operation
- \* Implements the "Stay-Off" after power loss; req. by power companies
- \* Easily [expandable] to offer Pressure and Water-Level monitoring
- \* Built using mass-produced dev-boards that can be easily purchased

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**Included in the purchase**  
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- (1) Hand-Remote Unit
- (1) Pump-Controller Unit with cable and plug
- (1) EBL 9V NiMH battery
- (2) EBL 9V 600mAh Li-ion batteries

- 1- Installation Kit including ]
- A 480VAC 3-Phase to 24Vdc power supply on a DIN Rail
- A 480VAC or Higher Solid-State Relay on a DIN Rail
- A Pump Panel Exit plug for attaching the Pump-Controller Unit
- Drill Bit and Thread Tap for #8-32

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- 2x #8-32 Machine screws
  - Automatic center punch

An Order page exists at

<https://www.etsy.com/listing/525674784/irrigation-pump-remote-control-480vac-3>

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Installation Process Overview  
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[ Tools Required ( Not Supplied ) ]

- Cordless Drill
- Small Phillips Screwdriver
- Small Flat-Head Screwdriver
- Wire Cutter & Strippers

[ Wiring ]

- 4x Wires from L1, L2, L3, GND to Power Supply
- 2x Wires from Solid State Relay to Selector & Start button
- 3x Wires of the panel 'Exit Plug' to SSR Input & Power Supply

The Units will be ready to use upon the completion of installation shortly described above. Firmware will already be loaded on purchased units as well as a charged battery already in the Hand-Remote. The firmware on both units can be customize to your particular needs using a computer and USB connection.

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An Open Source Project  
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A fully detailed user manual with installation, building, and modifying instructions can be viewed at:  
<https://tgit23.github.io/AgIrrigationRemoteControl/>