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Hydrawise irrigation controller review

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This is accomplished by installing and running a Python script on the machine attached to your local LAN. The dot uses UPnp to find the details. Great information and source code can be found on manufacturer musings. Python code can be found on their github: only fauxmo.py in the required editing section called FAUXMOS: I added information about my three areas, treating each area as if it were a unique switch. Inaccuracy = ['backyard water', rest_api_handler(' ' ['Frontyard Water',, rest_api_handler(' ' ['Plant water', rest_api_handler (' ' run the pie code and ask Alexa for the scan device. These are binary switches, when you say Alexa turn on backyard water Alexa should first use the URL when you say Alexa closes backyard water Alexa should use the second URL in the [backyard water] switch. If Alexa is successful, she will respond with fine. If not he might state that he couldn't find a device or he couldn't say anything at all. Formatting is very important. Lots of trial and error. Once Alexa is responding correctly, a script needs to explain requests sent from Alexa. I put the following code in alexa/folder and it's index name.php: <?php $cmd =$_GET ['cmd']; $tgt on or off = $_GET ['A']; is not currently used. $IP = 192.168.11.44; IP for water controller ESP8266 $zone 0 = 00; Set all fields to 00 $zone 1 =00; $zone 2=00; If ($cmd ==) { // Send order to ESP this hard code 30 minuets.switch ($tgt) { Case Backyard: $zone 0 = 30; brake; case frontyard: 2=30; brakes; Case Plant: $zone 1=30; brakes; Default: brake; }} $request = = Creating attributes for requests sent to ESP Zone 0 is zone0 and $zone is the time for 0 zone0 if ($cmd ==off) { $request = stop; } $fp = fsockopen($IP, 80, $errno, $errstr, 5); If the connection opens (!$fp) { Echo $t not found or offline! - $errstr ($errno); } and {$out=GET/?$request HTTP/1.1\r; fwrite ($fp, $out); //ESP8266 fclose ($fp) sends requests); Flush ($fp); }? >> This setup uses Arduino UNO with an LCD keypad shield and XBEE S3B RF radio module that advertises 28 miles; But for normal use, I wouldn't expect more than 2-miles (I've tested with good results at 2-miles). We have been using this device for the past week with good results so far. A 3D printer is required to create the total content cost of the case (most other solutions come with only 1/2 that is required); $186 per pump-controller unit $55 per hand-held remote attachment are full building instructions, material list and operating instructions in pdf document. To get the most recent updates see; = $186.26 / Per-Pump-Controller (1) 480V 3-Phase to 12VDC Power Supply = $ 66.99 - $59.00 (RHINO) + $7.99 (FULREE) (1) 600VAC Solid State Relay = $24.50 (1) DIN Rail = $ 8.00 (1) Arduino UNO R3 w/Male Headers = $ 3.80 (1) Zigbee Shield = $ 4.83 (1) Xbee 900hp Pro Module = $36.11 (1) High Gain Antenna = $ 4.33 (15) Screw Terminal Blocks = $ 2.15 (4) Female DuPont Pin Headers = $ 0.79 (1) 50x70cm Perfboard = $ 1.56 (1) Right-Angle 9VDC Power Plug = $ 4.51 (1) Computer Power Connector = $ 1.99 (25-feet) 600V Wire 16AWG+ = $ 9.18 (50-feet) Outdoor data cable = $11.50 (Various) Solder-less Crimp Connectors = $ 6.02Hand-Remote = $55.00 / Per-Hand-Remote (1) Arduino UNO R3 = $ 3.80 (1) Keypad / LCD Shield = $ 2.19 (1) Zigbee Shield = $ 4.83 (1) ON/OFF Rocker Switch = $ 0.86 (1) Active Buzzer = $ 0.60 (2) Resistors = $ 2.28 (1) Xbee 900hp Pro Module = $36.11 (1) High Gain Antenna = $ 4.33AgIrrigationPumpRemoteControl.pdfThe HandRemote is the remote controller unit used to control and monitor an irrigation pump remotely. Handyremote uses the following electronic parts- Arduino UNO R3 Board 1-LCD Keypad Shield 1-Zigbi Shield 1-XB-Pro 900Hp S3B module and High Gain Helical Antenna 1-9Vdc Battery Connector 1-Active Buzzer 2-Resistant. Setup LCD Keypad Shieldwire Battery-Meter Voltage-Divider Select (2) Racers; One value being 1/3 the other (10K-ohm is recommended up to 1M-ohm) solder first resistance (full value) VIN → A1 solder A1 on top of LCD shield from other resistance → GND (solder hole just left of VIN) from (1/3 value) additional back side leadsThe two-resistant setup snip from 9Vdc battery to a voltage divider (to which we will attach to VIN). Analog input on Arduino should not exceed 5Vdc. The voltage divider will divide the battery voltage by 1/3 its actual voltage. This will keep a close watch on the battery level from the hand-remote. a fried cake made of grounded pulse and spice The resistor values the low drain on the battery; But very large values can affect resistability. Plug lcd keypad shield on Arduino UNOB. Zigbee/Xbee ShieldRemove Header Pin D7 Zigbee Shield Using Needle Nose Extractor Using Clamp Soldering Iron on The Back Pin D7 of Zigbee Shield - Pin Solder Pad Top Heat and Draw Pin From BoardsHelder Zigbee Shield (Flip Upside) LCD The top solder hole of the keypad shield position → D6 (D7 steps removed in #1) against the LCD shield and zigbee shield flat insert LCD shield with top - the header pin requires a little bending (with UNO attached) zigby pin on the solder LCD keypad shield. For active buzzerSolder active buzzer LCD keypad shield either print a small piece of plastic or add black tape to the back side of the active buzzer zigbee Shield.Solder on the Zigbee Shield.Solder 's pin active buzzer on D2 (3 left pin-LCD face up) on LCD shield cut (-) and center pin active buzzer dropping for about 1/8 connection but not short enough to touch D3 and D4. Active Buzzer and Zigby Shieldbend Wire Power LCD Keypad Shield The first and last pin closest to the edge of the ICSP pin header is the one end of a red wire → the left-most pin of the LCD keypad shield for the left-most pin of the IC PIN header (5V+) active buzzer (+) pin (center pin), strip insulation and solder pull wire draw into the lower-right of zigby ICSP (5V+) plug, strip insulation, wire, Cut the length and insert into the plug solder one end of a black wire → right-LCD keypad shield ICSP pin header (5V+) active buzzer left-pin (-), strip insulation and solder pull wire drag into the top-right of zigby ICP (GND) plug, strip insulation Cut the length and plug in, reduce the remaining ICSP pins as much as possible to allow the unit to fit inside the case D Communications re-removed the two green jumpers factory installed on the Zigby Shieldconnect Arduino UNO Pin D11 and D12. Zigbee communications title from an upside-down view; left-top of Arduino UNO; Count pin holes for right D0, D1, D2.... Top jumper from Arduino UNO pin D11 for D11 solder-header center-pin to Zigbee Shield Solder from a second wire Arduino UNO pin D12 down-jumper-header center-zigbee shield2.2.0 pin 2 The following on TheHardware assemblya.3D-Printprint a 3D-printer/HandRemote/3D-print-STL/HandRemote-Case.stl/HandRemote/3D-prints-STL/HandRemote-buttons.st Modell/HandRemote/3D-Prints-STL/HandRemote-BackCover.stl/HandRemote/3D-Print-STL/HandRemote-BatteryCover.stl/HandRemote/3D-Print-STL/HandRemote-BatteryInsulatorPlate.stl/HandRemote/3D-Print-STL/HandRemote-SideCover.stlB.Install installed electronics inside their proper location button case in front of the case in front of the case in front of the power on/off rocker switch; Use the masking tape on the front side to install hold the button in your place Insert (Arduino UNO removed) in case the buzzer, Zigbee Electronics Assembly (from step #2.1) (4) 10mm or small screws-adjusted tightness Make sure the button still click (very tight button will permanently pinch down) back on lcd keypad shield Arduino UN Slide the O plug Xbee to the top-hole and then plug in the Zigbee Shield Battery Powerinstall Plug-in Xbee RPSMA Connector Attach Antenna to C Wire Handremet-BatteryInleterplate.stl 3D-print battery hole inside the root 9Vdc battery power plug from the front, Around Zigby Shield, The switch has the backwire and power to the Arduino UNO solder to leave the BLACK Wire uno power-jack backside pin (as pictured) an inch or so dull on the 9VDC plug; Measure and cut the red wire on the nearest rocker - switch connector strip end and solder wire rocker switch connector strip cut left at end of red wire and solder it in other connector on rotation - forward wire wire to red UNO power-jack backside pin at the other end of the switch solder cut Check for power plug-in in a 9V plug-in 9V plug-in rocker-switch to power-on (marked with a-to-one) and verify that the LCD display covers the lights to insert the power case HandRemote-BatteryCover .stl 3D-print cases battery-hole in and bottom handremot-BackCover.stl 3D-slide from bottom in print then slide down center slide handRemote-SideCover.stl 3 in a screw insert usb side until it place 3.1 Photos in Perfboard AssemblyInstall Headers Remove the outer pin on a 4-pin female header (power) Remove every other pin on a 4 pin female header (RX/TX) (2) Green Remove Jumpers on Zigbee Shield and Plug it on the Arduino UNO plug plug plug the 6-pin male header into the digital header of zigbee shield in the analog header of zigbi shield (A5 → A0) ((D2 → D7) 5V and GND label Zigbee Insert power female headers from step #a into the shield hole (next to reset button) a 4 pin male header in the top of the power female header RX/T Insert Step From #b Female Header Two Center Male Headers (XBEE/USB) Zigbee Shield Solder Pin To align a 5cmx7cm 2.54mm Pitch Perfboard Header Pin and Place Pin on The Perfboard Pin Header for Solder Perfboard Solder Zigbi Women's Power Header Pin Zigby Shield to Arduino Uno Unplug from Arduiino Uno Shield , the solder attached to the perfboard, the female power header pin is left in the hole of the zigbee. Header pin cut (12) gradient wire for wires approximately 1 long and strip one end. Cut (2) wires approximately 3 long and strip one end. Inserting the Zigby Shield to unplug the perflag (6) 1 wires from the zigby-side of the perfboard into the hole under the analog male pin header, bend and solder insert (4) 1 wires. 4-right (D4-D7) hole just above the digital male pin header, twist and insert solder (2) 3 wires Zigbee-Perfboard from the side of the electric male pin header (center-2), twist and solder attached (2) wires from the top side of the Perfboard across 1 RX/RX. Install Screw Terminals Handremot-PerfboardCover.stl 3D-print with perfboard lining insert header pin solder joints at top of grooves (3) 2x screw terminals start on right with analog section and work left to allow sliding blocks simultaneously on your edges (2) 2x screw terminal Insert with 5VDC section with digital section (2) with the same method above 2x screw terminals (as above) insert (2) 2x screw terminals with GND section (similar to above) solder screw terminals for their respective header wires sell the perfboard when screw terminals place screw terminals in place. Wires, bend them flat with Perfboard and solder them for their corresponding pins (see picture or wiring diagram)3.2Hardware AssemblyA.Print Model (3D-print) 3D-print Following Model @ PumpController-Cover.stl PumpConCover-USB .stl PumpController-AntennaCover.stlB.Install ElectronicsInstall UNO and Zigbee in case remove the connected screw terminal Perfboard if attached and include the Arduino Uno and Zigbi Shield plug in the right-angle 9Vdc power plug, So insert the Uno/Zigbee assembly for the Arduino Power Jack in case the USB and power jack sit on each side of the case. Install the XBEE module in the first case slot XBEE RPSMA connector then lift the XBEE module into place and plug it in zigbee gradient Xbee plug-in inInstall Xbee antenna cover slide antennacover.stl 3D-RPSMA connect on print caseAttach washer and walnut from outside and zigbee shield for ekinake to tighten the perfboard in 3.3.1000, Din Rail component is a part of din rail length for component length that will fit comfortable power supply, solid-state relays, and Fulree DC/DC converter is a length that comfortably fit somewhere inside the pump power panel to slot holes in the nearly 5-1/2 or 4-length rhino power supply in Fulree DC/DC. For rhino power supply on top label of Fulshree DC/DC converter (24VDC+) Black (-) Fulree DC/DC converter in black (-) wire attach to rhino power supply on top label (24VDC-) wire GND solid Attach a wire to the state relay (recommended black or green) from the other 24VDC - solid state relayB.pump on top of the rhino power supply to disperse the controller power cable to the pump mount the pump controller on the pole next to the pump power Measure and cut the length of the Cat5e outdoor cable to reach the bottom of the power panel from that location to connect the pump controller → pump panel-exhaust plug which will be installed in the 3.3.2-section D-Step #3 Separate the two connecting ends of a computer power plug by cutting wires in the middle wire to the male end of the cable and saving the female end to the pump-paneled-exit plug yellow power plug → orange twisted pair (9) (B) Shown in OM) → Brown Twisted Pair (9Vdc GND) Black Red Power Plug next to Black Yellow Power Plug → Green Twisted Pair (Extra Accessory Wire) Red Power Plug → Blue Twisted Pair (pump control) pump controller end wire (above the other end #a the same wire in step) external insulation strip from cat5e cable approximately 4 from the end strip and the wire twisted pairs as follows orange twisted pair → red wire angle 9Vdc UNO Power Plug Brown Twisted Pair → Angle 9Vdc UNO Power Plug Green Twisted Pair → Perfboard Screw Terminal (D6) Blue Twisted Pair → Perfboard Screw Terminal (D7) 3.3.2Wiring is a guide to the black wire of power and control is a guide to power supply and install at the pump/pump. The following supply will require for DIN rail cut length (recommended 5-1/2) Rhino power supply Fulree DC/DC converter pumpcontroller-FulreeDINMount.stl 3D-print solid state relay 12 gauge wire 600V or moreThe following equipment will require voltator or reads beyond 500 Cordless Drill Center Tap Bit (#10 #21 for #21-32 machine screw) threading faucet (#10-32 machine screws for #10-32) (2) - Machine screws protective insulated and flash protection personal gear wire strippers and cutters make sure the main breaker has been turned off and carefully check that there is no voltage on the production of the main breaker with a proper meter!!! 480VAC is fatal; And severe flash burns and/or can lead to death. (For example a meter on the wrong setting can explode due to flash burns on you even at a distance). I disclaim any and all responsibility for any risk or damage caused by following any instructions in this manual. See two holes in the desired location, punch, tap-thread, And Mount DIN Rail is #21 for horizontal #10-32 recommended using a #10-32 x 1/2 machine screw drill bit size -5/32-0.1590 snap rhino power supply on rhino power supply for DIN rail in center snap. On solid state relay for DIN rail on the right side to the left of rhino power supplyc.pump panel wiring notice to the rhino power supplyc.pump panel wiring notice on fulree dc/dc converter on solid state relay: All wires in this section must be made with 600V rated wire wire Rhino power supply connect rhino terminal L1, L2, to the top terminals of contact L3 (i.e. starter/connector) Connect rhino GRND terminals from L2, L3 terminals A Back-planwire solid state relay connect solid state relay (15) → hand-of-auto switch connect solid state relay (16) → contactor activation coil side. Auxiliary Contact and Start Button (Gray in the diagram above) -- Follow the hand-of-auto wire for the Start Button Wire Solid State Relay (16) in the opposite direction of the start button - hand-in-hand off-auto wire from 3.3.1 to female exhaust plug-in female exhaust plug-in with female end button wire 3.3.1. A. Exit plug pumps insert wires through a bottom hole in electrical panel Connect yellow and black wires from Fulshree DC/DC the female end of the computer power plug to the yellow/black wires converter for the red wire connect the solid state relay (A2) to the red wire of the female end of the computer power plug tape from the black wire next to the red wire Install the Arduino Sketch IDE (if not already installed) the PeerioSerialControl Library (if not already installed) in the web-browser (with optional auxiliary contacts to verify the power position of the pumps(as can be used); go to Green Clone or download Download Zip Save go to the place where you will remember - select sketch such as document or desktop run the Arduino Sketch IDE menu item → add → library .zip add library selecting Peerio SaveControl Library file is saved in Step 'B' Firmware file for HandRemote.ino Firmware firmware location example: \Downloads\AgIrigRemoteControl-master\AgIrrigationRemoteControl-Master\ PumpController firmware location example for HandRemote File PumpController.ino: \0 Download \0 AgIrrigationRemoteControl - Master \0 AgIrigationRemoteControl - Master \0 PumpController \0 Upload pumpermot compile and firmware setup to upload-mode Select unit port by removing both Zigby Shield jumpers plug in a USB cable from computer units connected to USB; in the Port → Sketch menu tools to determine the port; Open Windows Device Manager → Ports (COM & LPT) a new com?? Select the board appears to be correct after plugging in the port cable; The Sketch Menu Tools Board → Arduino →/→ Press the right-arrow next to the check mark in the top-left corner to upload the firmware to the unit unit

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