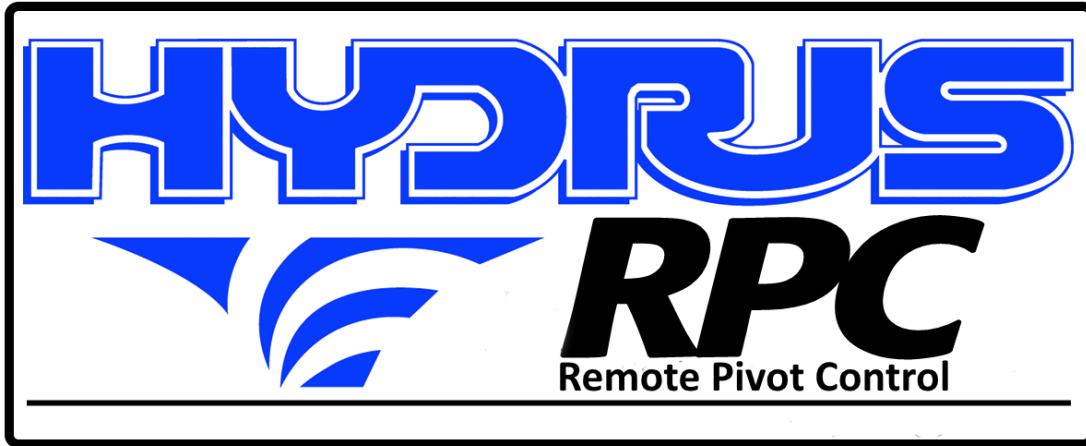


Remote Pivot Control (RPC)



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Irrigation Components International, Inc. is now offering **Hydrus** Hydrus RPC Remote Pivot Control powered by PivoTrac™. Our product is easily installed on most machines and offers an unlimited range of pivot control. With multiple program options you can efficiently and remotely irrigate any field. Key features include the ability to:

- Manage multiple pivots from the comfort of your home or office
- Control pivot from your computer, tablet or smart phone devices
- Install devise in either existing end tower boxes or stand alone enclosures



Hydrus Features

Feature	Hydrus
Remote/Auto Restart	S
Start	S
Stop	S
Forward/Reverse	S
Water on/off (Pump/Valve)	O
Speed (% timer)	S
Water Application Scheduling	S
Programmable Park (Service Stop)	S
End Gun Control	S
GPS Positioning	S
Variable Rate Irrigation (VRI)	S
Pressure @ Pivot Point	O
Pressure @ End of Pivot	O
*Flow Meter	O
Hours/Revolution	S
Programmable Barrier Area	S
Position Auto Reverse (Anywhere)	S
Auto Restart After Power Loss	S
Pressure recovery auto restart pivot psi	O
History Log	S
Create, save, and name programs	S
Configurable Alerts	S
Telemetry	S
Telemetry Text Messaging	S
Graphical Display of Data (website)	S
Smart Phone	S
Logs/Record Keeping	S
Tower Auto Stop	S
Pivot Auto Stop Control	S

S = Standard | O = Optional

Getting Started

The following are required for service activation:

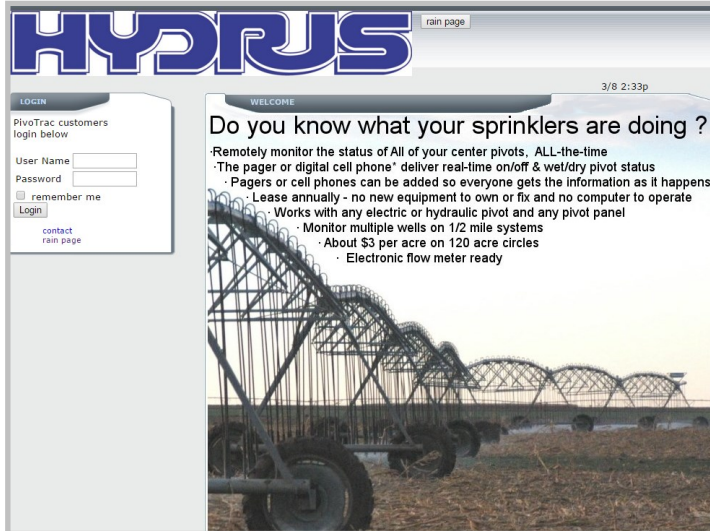
- ⇒ S/N from label located on the back of the Hydrus
- ⇒ Customer information
- ⇒ Dealer information
- ⇒ Pivot information
 - ① Pivot name/section
 - ② Center point coordinates (does not have to be exact)
 - ③ Pivot brand
 - ④ Pivot model
- ⇒ Does the pivot already having a factory direction control already installed and setup?
 - > If so:
 - ① Dealer/installer will contact activation center
 - ② Tests command will then be sent to determine if the direction control will respond to Hydrus commands.
 - NOTE:** The panel switches must be set to the AUTO REVERSE, and not auto stop in order for direction control to work.
 - > If not: A direction control kit that mounts in the main control panel is available and will need to be installed and setup before continuing with installation.

Remote Pivot Control (RPC)

Communication, Controls, and Web Portal

Customer Login

- Web address: www.hydruscontrols.com
- Login information to be supplied by your Hydrus Dealer
- Enter Username & Password



HOMEPAGE/ SUMMARY TAB:

- SHOW/HIDE STATUS CODE HELP—Displays legend to explain pivot operating status and reports (See Figure X.X. below)

site	status	psi	GPS	control	day/rev	wet/run days	stopped wet days	ratio	Est Water YTD*
WDC-		x	x	stop auto	-	0.0	0.0	0.0%	0.0 af [edit*]

[show/hide status code help](#) | viewing data starting **January 01, 2015** [change](#)

p Power off
s Stopped Dry (power on + NOT pressurized + NOT walking)
d Run Dry (NOT pressurized + walking)
D Run Dry Reverse (NOT pressurized + walking reverse)
w Run Wet (pressurized + walking)
W Run Wet Reverse (pressurized + walking reverse)
!! Stopped Wet (pressurized but NOT walking)
wL Run Wet at low pressure
WL Run Reverse Wet at low pressure
x Monitor not reporting (pivot off or may need repair)

Optional Codes (capital letter denotes reverse)
D Run Dry Reverse (NOT pressurized + walking reverse)
W Run Wet Reverse (pressurized + walking reverse)
wL Running wet at low pressure (pressurized but below setpoint)
rWL Running wet at low pressure (walking pressurized, but below setpoint)
rWL Running wet at low pressure reverse (walking reverse pressurized, but below setpoint)
rWL Running reverse wet at low pressure

SUMMARY TAB:

- SITE: Pivot name. Click on site name to view details and activity for a specific pivot. See image below.

⇒ DETAILS FOR SITE

- > History– Shows daily activity for selected pivot
- > Set-up- Opens to another window where you can enter information for legal description, total acres, wetted acres, flow rate, efficiency, crop, variety, population, plant date, finish date, finish acre in, yield, rain adder, rain start, and rain finish.
- > Side notes– Allows user to keep notes for easy reference
- > Control– Takes you to pivot control page

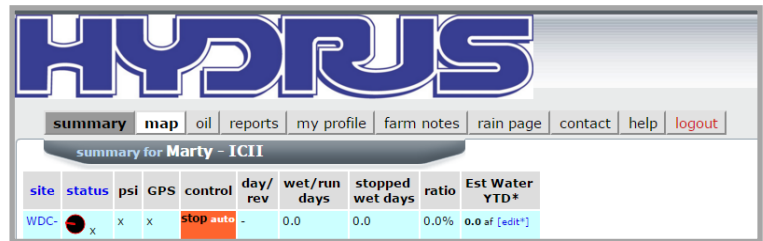
⇒ YTD PIVOT SUMMARY– Graphs the downtime, running dry, and running wet for the year

⇒ POSITION BY GPS– Displays a smaller version of the “map” page showing the compass position of the end tower

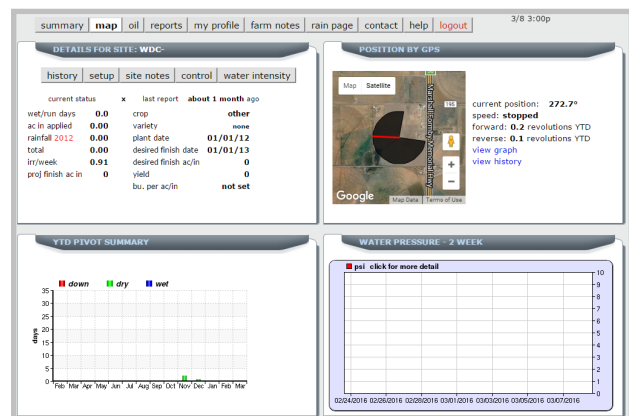
⇒ WATER PRESSURE, 2 WEEK—Graphs water pressure in 2 week periods

⇒ RAINFALL, 2 WEEK— Graphs rainfall in 2 week periods

- STATUS: Shows if the pivot operating wet or dry, forward or reverse, stopped wet or dry, and power off or monitor not operating using color code of the circle and letter as indicators.
- PSI: Display water pressure
- GPS: Displays the compass position of the end tower
- CONTROL: Click on to enter the control page. From this page, the user can send commands to start or stop, change application rate, change direction, start or stop the end gun and run wet or dry by either a direct or scheduled command. Scheduled commands can be either by position or time
- DAY/REV: Displays number of days per revolution
- WET/RUN DAYS: Number of days watering



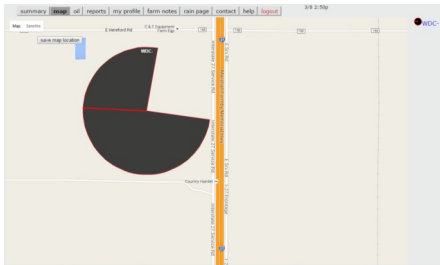
Summary tab showing site, status, and activity display options.



Pivot site display screen

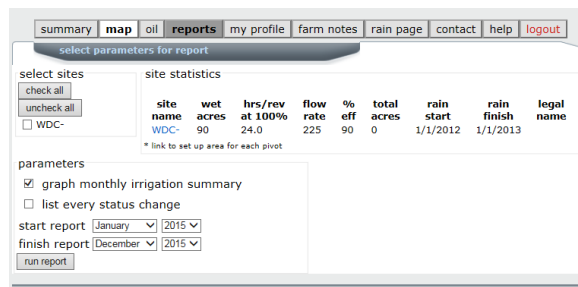
MAP TAB:

- Displays pivots onto a map for customers to view.
- Customers have the ability to view as a standard map or satellite image.



REPORTS TAB:

- Creates PDF format reports to graph the downtime, wet and dry operation of the user pivot.



select parameters for report

select sites

check all
 uncheck all
 WDC-

site name	wet acres	hrs/rev at 100%	flow rate	% eff	total acres	rain start	rain finish	legal name
WDC-	90	24.0	225	90	0	1/1/2012	1/1/2013	

* link to set up area for each pivot

parameters

graph monthly irrigation summary
 list every status change

start report:

finish report:

MY PROFILE TAB:

- Displays the user's login, password and a box to enter the user's current time. Also, a selection of alerts to activate.

FARM NOTES TAB:

- Provides a space to keep notes to easily access and reference when needed

RAIN PAGE TAB:

- Monitors rain levels for specific area. Currently setup for rain data points for the PivoTrac monitored pivots in Texas.

CONTACT TAB:

- Submit questions and contact information for technical support or assistance when needed.

HELP TAB:

- Quick reference explanations for elements of the website.

Safety Symbols, Pictures and Definitions

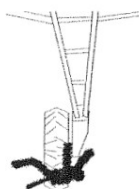
Throughout the manual you will find pictures or symbols that are inserted for your safety. Most of these pictures and symbols are universal and are known to the reader. It is always a good idea to review these pictures and symbols to understand the context of how they are presented in the manual.



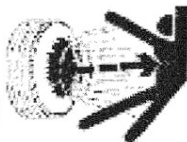
WARNING: COULD CAUSE SERIOUS INJURY OR POSSIBLE DEATH.



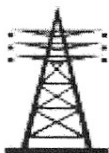
WARNING: HIGH VOLTAGE POTENTIAL FOR ELECTROCUTION.



WARNING: MACHINE MAY INTERMITTENTLY START OR STOP.



WARNING: FOLLOW MANUFACTURERS SPECIFICATIONS FOR PROPER TIRE INFLATION AND INSPECTION. OVER INFLATION MAY CAUSE SERIOUS INJURY OR DEATH.



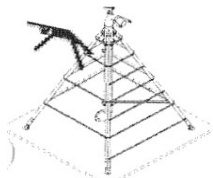
WARNING: BE AWARE OF SURROUNDING POWER LINES WHEN INSTALLING OR TROUBLESHOOTING EQUIPMENT. FAILURE TO DO SO COULD CAUSE SERIOUS INJURY OR POSSIBLE DEATH.



WARNING: KEEP HANDS AND OBJECTS AWAY FROM MECHANICALLY MOVING PARTS. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR POSSIBLE DEATH.



WARNING: STAY CLEAR OF HEAVY MATERIAL BEING LIFTED ABOVE.



WARNING: DO NOT CLIMB ON OR JUMP OFF MACHINE.

SAFTEY:

**MACHINE MAY START UNEXPECTEDLY
BARRICADES NEED TO BE IN PLACE IN CASE OF EQUIPMENT FAILURE
BARRICADE BARRCADE NEEDS TO BE IN PLACE IN PART CIRCLE**

LIMITED WARRANTY POLICY

The limited warranty set forth below is given by IRRIGATION COMPONENTS INTERNATIONAL, INC. (ICII), Inc. (“HYDRUS”) with respect to HYDRUS brand Products purchased in the United States.

HYDRUS Products, when delivered to you in new condition in their original containers, are warranted against defects in materials or workmanship for a period of 90-days from date of installation, with proof of install date. Warranty allowances on non-manufactured components are also 90-days as detailed in the HYDRUS User Manual. Perpetual warranty will provide a replacement for all reasonable claims not associated with improper installation.

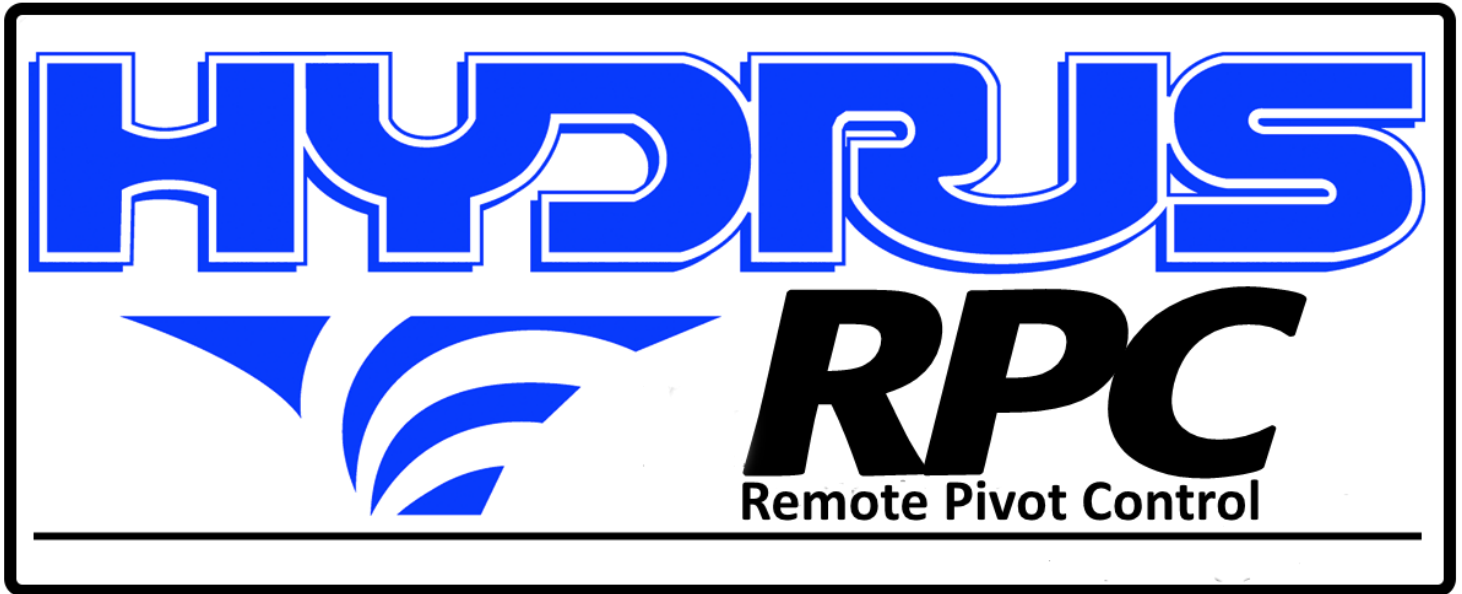
Defective Products, or parts thereof; which are returned to HYDRUS and proven to be defective upon inspection, will be repaired to factory specifications and returned to you. Warranty repair shall not extend the original warranty period of the HYDRUS product. This limited warranty shall only apply if the Products are used for their intended purpose: Pivot Monitoring and control including on/off, position, speed, direction, running, etc... HYDRUS products will also be used to monitor input from secondary devices, such as flow, temperature, pressure, velocity, soil moisture, equipment status, etc. It also covers devices intended for control of the pivot and other associated devices: This limited warranty covers all defects encountered in normal use of HYDRUS’ Products, and does not apply in the following cases:

- (a) Loss of or damage to HYDRUS’ product due to improper installation, abuse, mishandling, improper packaging by you, alteration, accident, electrical current fluctuations, failure to follow operating, maintenance and environmental instructions prescribed in HYDRUS’ instruction manual, or service performed by other than HYDRUS, or any HYDRUS Authorized Service Facility which may be established separately from this limited warranty policy.
- (b) Use of parts or supplies (other than those sold by ICII) which cause damage to the Products, or cause abnormally frequent service calls or service problems.
- (c) Damage caused by natural causes such as wind, lightning, storms, fire or acts of God.
- (d) Normal wear and tear.

“DISCLAIMER: The customer shall not consider the use of HYDRUS as a substitute for the Customer's personal monitoring of equipment which HYDRUS is operating. HYDRUS specifically warns the Customer that its product is designed to augment the Customer's ability to monitor and control existing irrigation equipment. HYDRUS is dependent on Internet, GPS, Satellite, and cellular technologies, which do not always function properly. Customer acknowledges that the reliability of Internet, GPS, Satellite, and cellular technologies is outside of HYDRUS’s control and disclaims any and all responsibility for the reliability of these technologies.

“CUSTOMER'S RESPONSIBILITIES: Customer agrees to maintain the irrigation equipment, that HYDRUS is installed on, in good repair and agrees to keep all equipment safety devices intact. Customer agrees to maintain or install field stop and barricades to prevent damage to the irrigation equipment in the event that HYDRUS or any of the associated technologies malfunctions. Customer acknowledges and agrees that HYDRUS is not solely a replacement for personal monitoring and operation of irrigation equipment.”

NO IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLIED TO THE PRODUCTS AFTER THE APPLICABLE PERIOD OF THE EXPRESS LIMITED WARRANTY STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON OR ENTITY WITH RESPECT TO THE PRODUCTS, SHALL BIND ICII. (SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.) ICII SHALL NOT BE LIABLE FOR LOSS OF REVENUES, OR PROFITS, OR INCONVENIENCE, EXPENSE FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OF DATA, OR ANY OTHER SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY THE USE OR MISUSE OF, OR INABILITY TO USE, THE PRODUCTS, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF ICII HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, IN NO EVENT SHALL RECOVERY OF ANY KIND AGAINST ICII BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY ICII AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK OF LIABILITY FOR LOSS, DAMAGE, OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE OR MISUSE OF, OR INABILITY TO USE, THE PRODUCTS NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF ICII. (SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION OR LIMITATION MAY NOT APPLY TO YOU.) THIS LIMITED WARRANTY STATES YOUR EXCLUSIVE REMEDY.



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