

HYDRUS



a division of
**IRRIGATION
COMPONENTS
INTERNATIONAL**
(V.I.) Incorporated



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Introduction



All That You Need...



In One Place.



IRRIGATION
COMPONENTS
INTERNATIONAL
Incorporated, Inc.



Product Offerings

- Remote Control & Monitoring
 - Remote Pivot Control (RPC)
 - Remote Flow Monitoring (RFM)
- Control Panels
 - 2300V
 - 2300
 - 2000
 - 1500
- Collector Rings
 - Valley Style
 - Lindsay Style
- Tower Boxes:
 - Valley Style
 - Lindsay Style
- Linear Control
 - 2300 HLC
 - Programmable Logic Controllers
- Auto Reverse & Other Options
- Pivot Light Kits
- Misc Products
 - Contactors
 - 3-Second Delay Board
 - Auto Stop/Auto Reverse Board



IRRIGATION
COMPONENTS
INTERNATIONAL
(V.I.) Incorporated

Hydrus Introduction (Overview)

- Founded: 1978 by Agtronics and Integral Corporation
- Acquired By ICII in 1988
- Hydrus Manufacturing: Daphne, Alabama USA
- Product Offerings: Tower Boxes, Main Control Panels, Collector rings, Light Kits, and associated equipment and components
- Hydrus supplies product to OEM, dealers, and distributors in: USA, Spain, Portugal, Austria, South Africa, Ukraine, France, Argentina, Turkey, Russia and Saudi Arabia
- Hydrus Manufacturing is a UL certified electrical shop carrying UL/CE/CSA labels.



Background

- ICII has been providing electrical components to the Irrigation industry for nearly 30-years
- Hydrus products are recognized globally for quality and innovation
- ICII has a complete line of electrical controls for virtually any application



Hydrus Product Line



Hydrus Product Line

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 - Remote Pivot Control (RPC)*
 - Remote Flow Monitoring (RFM)
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 - 2300V
 - 2300
 - 2000
 - 1500
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 - Contactors
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 - Auto Stop/Auto Reverse Board

* Please check with your local ICII branch for availability in your area.



6 New Hydrus Products Released

1. **Remote Pivot Control (*RPC*)***
2. **Remote Flow Monitoring (*RFM*)**
3. **2300-V (Valley Style) Control Panel**
4. **3-Sec Board (V-Style)**
5. **Auto Stop/Auto Reverse Board (V-Style)**
6. **Linear Guidance: Electromechanical & Programmable Logic Controls**

* Please check with your local ICII branch for availability in your area.



Detailed Product Information





Hydrus Remote Pivot Control (RPC)*



Irrigation Components International, Inc. is now offering Hydrus™ **RPC** Remote Pivot Control . 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:

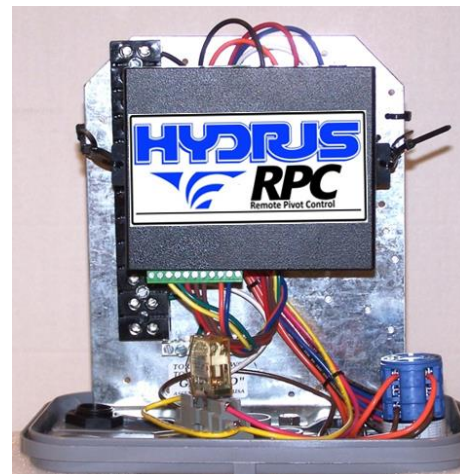
- Manage multiple pivots from the comfort of your home , office, or on the road
- Control pivot from your computer, tablet or smart phone devices
- Install devise in either existing end tower boxes or stand alone enclosures
- Affordable and Proven Technology
- Provides Variable Rate Irrigation (VRI) control
- Assembled in the USA



Part # 9530806101

Key Features:

- Fast installation
- Easy to use - Website
- Full Featured - OEM
- Service Contract including Perpetual warranty \$295/yr
- Engineered & Assembled in USA



For more information, contact your local Irrigation Components Branch. www.irriacomp.com

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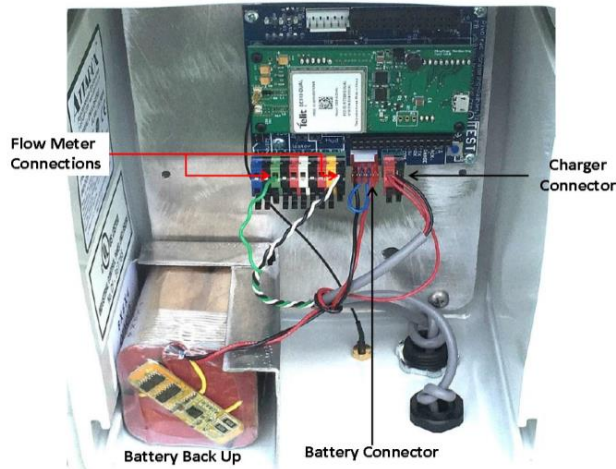
* Please check with your local ICII branch for availability in your area.

Remote Flow Monitoring

Key Features:

- Easy Installation
- Works on all pulsed output
- Asm in the USA
- 12V power supply
- Engineered & Assembled in USA
- Service Contract including Perpetual warranty \$295/yr

REMOTE FLOW MONITOR
BASIC SETUP



Irrigation Components International, Inc. is now offering **HYDRUS RFM™** Remote Flow Monitoring technology. Our product is easily installed on most flow meters that have a pulse output and offers multiple sensor monitoring options.

Key Features:

- System monitoring from your computer, tablet or smart phone devices
- Simple, plug-and-play installation
- Monitor multiple sensors including: flow & pressure from the comfort of your home, office, or on the road
- Compatible with existing flow meters with pulse or MODBUS outputs*
- Affordable and Proven Technology
- Real-time monitoring for system calibration available (requires MODBUS)
- Assembled in the USA



Part # 9540610101

Compatible with most flow meters by:
Seametrics · McCrometer (with E7000)
Siemens · Badger Meter · Sparling TigerMagEP
Signet · And many others...



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Product Features

Main Control Panel

- Familiar internal electrical components and wiring layout
- Volt and Hour Meters
- Forward/Reverse
- Wet/Dry
- Auto End Gun
- Start/Stop
- Pump Control
- Integrated V-Style Auto-Stop/Auto-Reverse & 3-sec delay circuit boards
- The HYDRUS 2300V is designed to work with all existing pivot safety systems.
- Available Low Pressure Shutdown
- Manufactured in the USA & U.L. Listed.
- Dimensions: 32"W x 20"H x 11.5"D



Standard Inner & Outer Door Stops



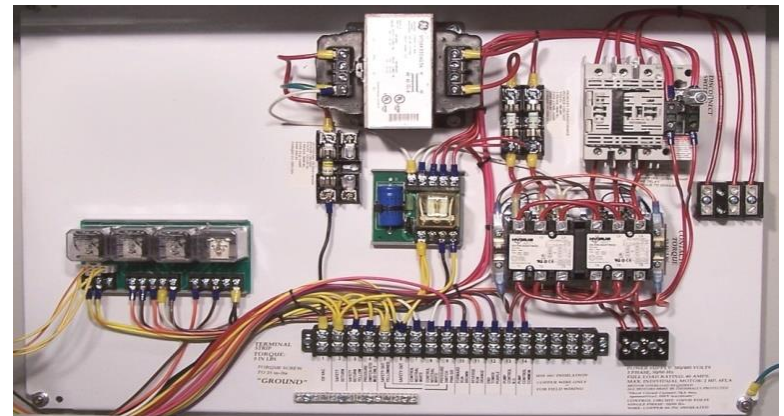
Outer Door Lock

Part # 3048 300367

Hydrus 2300V

Key Features:

- Valley Panel Color Coded Wiring
- For/Rev interlock contactors
- 3-Sec Boards Installed
- Auto Stop/Auto Reverse Circuits & Relay Installed
- Aux Pump switch pre-wired
- Made in the USA



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Hydrus Control Panels



Key Features:

- Universal replacement for all brands of center pivots
- Complete line from basic 1500 model to our fully loaded 2300 model
- Valley direct replacement 2300V model
- Aux pump switch pre-wired
- Made in the USA



Part # 3048300390



Part # 3048300380



Part # 3048300360

Manual Main Control Panels

Our control panels can be adapted to work with Lindsay, Valley, Lockwood and many other systems.

Standard Features Include:

- Hour Meter
- Forward/Reverse & Wet/Dry Switch
- Pump Control & Auto Reverse Switch
 - End Gun Switch
- 2 Additional Auxiliary Switches (2300 Model Only)
- End Tower Light Indicator (2300 Model Only)
 - Heavy Duty Disconnect Switch

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HYDRUS

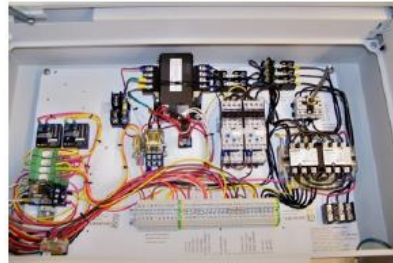
Linear Control Panel



Irrigation Components International, Inc. is now offering the Hydrus Linear Control Panel. Our product is easily installed on most linear systems, and replaces OEM equipment.

Product Features

- Volt and Hour Meters
- Forward/Reverse Switch
- Wet/Dry Switch
- Auto End Gun Switch
- Start/Stop Switch
- Pump Control Switch
- Auto-Stop/Auto-Reverse included
- The HYDRUS linear controls are designed to work with existing pivot safety systems
- Available option: Low Pressure Shutdown
- Manufactured in the USA and U.L. Listed.
- Dimensions: 32"W x 20"H x 11.5"D



Linear Controls

Key Features:

- Main Control Panel
- Forward and Reverse Control Boxes
- Made in the USA

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Collector Ring

Key Features:

- 11 to 13 rings standard
- Plastic & Aluminum Lids
- Roller bearing for reliable operations
- J-Pipe Conversion Kits available



Collector Ring with Aluminum Lid

- Available in 4 - 13 Ring (14 Ring available by special order)
- New Aluminum cover adds greater impact resistance. Interchangeable with original plastic cover.
- Specially designed cover latches
- U.L. listed to ensure safety & quality
- Large copper brushes are 80% copper & 20% graphite for less resistance
- Seamless ring to reduce brush wear
- Collector ring fits all center pivot systems using internal style collector ring
- Wires are numbered and/or color coded for easy identification
- Greaseable Zerk fitting in the base, stops shaft seizure.
- Heavy duty die cast aluminum base is more durable than the competition's plastic base.
- 1" NPT female connection to "J" pipe.



11-Wire Part # 3022100141

13-Wire Part # 3022100142



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Tower Boxes



Tower Box

Irrigation Components is your one stop shop for Valley and Lindsay Style Tower Boxes.



Lindsay Style Tower Boxes



Intermediate Tower Box



End Tower Box



Stall Tower Box



Booster Tower Box

Valley Style Tower Boxes



Intermediate Tower Box



End Tower Box



Stall Tower Box



Booster Tower Box

* Tower boxes do not include brackets, alignment rods/linkage.

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Key Features:

- Valley Box - Heavy Duty Steel Base, Cam Bearing, and Attachment Tab
- Lindsay Box - High Impact, UV Protected Plastic Components
- OEM Quality Switches, Contactors, and Woodhead Strain Reliefs.
- Engineered and Assembled in USA

3-Sec Delay Board

Key Features:

- Valley Panel Color Coded Wiring
- Solid State Design
- Made in the USA



3 Second Delay Board



Irrigation Components International, Inc. is now offering a 3-sec delay board for your pivot control panel as part of the Hydrus™ family of products. Our product is easily installed in most control panels, and replaces OEM components.

Product Features

- Familiar internal electrical components and wiring layout.
- Prevents nuisance stalls.
- Manufactured in the USA



Part # 20 2180 6010



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Auto-Stop, Auto-Reverse Board

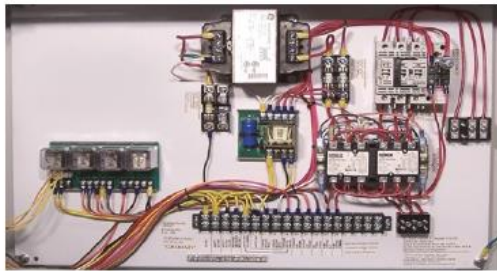
Irrigation Components International, Inc. is now offering an Auto Stop, Auto Reverse (AS/AR) board for you pivot control panel as part of the Hydrus™ family of products. Our product is easily installed in most control panels, and replaces OEM components.

Product Features

- Familiar internal electrical components and wiring layout.
- Manufactured in the USA.



Part # 2021806011



Auto Stop/Auto Reverse

Key Features:

- Valley Panel Color Coded Wiring
- Solid State Design
- Made in the USA

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Hydrus Contactors



Key Features:

- OEM Contactors
- 3 & 4 Conductors
- Interlocking Forward & Reverse



These Private Labeled contactors are the same high quality parts used by Valmont.

Features

- Compact size
- Interchangeable Mounting on Durable Metal Back Plate
- Optional Din Rail Mounting
- Weld-resistant Silver Cadmium Oxide Contacts
- Reinforced Thermoset Polyester Housing
- Quiet Operation
- Snap-On Electrical-Mechanical Interlocks
- Visual Contact Position Indications
 - ⇒ Lugs (Standard on 40A and above)
 - ⇒ Binding Dead Screws (Standard 20-30A)
 - ⇒ Quick Connects Featuring One-Piece Durable Design
- Class F Insulation
- Low VA Coil
- Meets:
 - ⇒ ARI/UL/CSA/CE/Sasso Requirements
 - ⇒ 2M Mechanical Life Cycle Tested
 - ⇒ 500,000 Endurance Life Cycle Tested
 - ⇒ 10,000 Recycle Life Cycle Tested



3 Pole Contactor Part # 2024778010



4 Pole Contactor Part # 2024778020



Forward Reverse Contactor Part # 2024778030

For more information, contact your local Irrigation Components Branch. www.irricomp.com

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End Tower Auto Reverse

Irrigation Components offers a universal, easy to install automatic stop and reverse package that mounts to any tower and is easy on the budget. Below is a list of some of the features with this product.

Product Features:

- Safety and crash prevention
- Allows machine to stop from any tower
- Unique four piece control arm configuration for ease of shipping and assembly
- Adjustable for broader base beams
- Kit includes: Arm assembly, control box mounting bracket, control box, springs, tum-buckles, 7 conductor cable, instructions and fasteners
- Made in the USA
- Competitively priced



End Tower Auto Reverse

Key Features:

- Simple Installation
- Works on all pulsed output
- Made in the USA

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Hydrus Light Kits



Key Features:

- Simple Installation
- Flange Mounting Bracket
- Made in the USA



Light Kits & Accessories

Irrigation Components offers a universal, easy to install light kits that mounts to any tower and is easy on the budget. Below is a list of some of the features with this product.

Product Features:

- Safety and monitoring
- Strobe lighting options
- Flange Mounting Bracket
- Engineered and assembled in the USA



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