

Relay and Switch (RS) Device User Manual

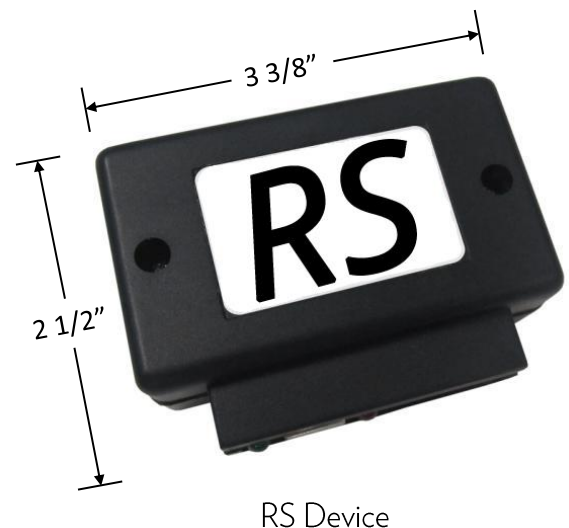


Basic Overview of a RS Device

The primary function of an RS Device is enabling wireless operation of equipment wired to it. The RS Device operates as a control module for standard PipeBurst Pro 4 equipment, but is capable of managing any third party device that meets the RS Device Input criteria.

RS Device Features

<i>Dimensions</i>	3-3/8" W x 2-1/2" H x 1-1/4" D	
<i>Button and LEDs</i>	Zone State Button and Status Lights	
<i>Power Options</i>	AC Power	
<i>Built-in Sensors</i>	Internal Temperature Sensor	
<i>Voltage</i>	5 VDC	
<i>Housing</i>	Black ABS Plastic	
<i>Audible Notification</i>	Internal Speaker	
<i>Wireless Frequency</i>	915 MHz	
<i>Input Options</i>	Input 1	Disabled
		Pull Up
		Pull Down
		FloMeter
		Analog 0-5V
		Analog 0-10V
	Input 2	Disabled
		Pull Up
		Pull Down
		FloMeter
		Analog 0-5V
		Analog 0-10V
		Analog 4-20mA
<i>Relay Options</i>	Relay Changes with Zone State	
	Relay Changes with Zone Alarm	



Customer Support

GreenField Direct, LLC
 14015 238th Street
 Greenwood, NE 68366
www.pipeburstpro.com/contact
 E-Mail: help@greenfelddirect.com
 Phone: 866-466-LEAK (5325)
 Hours of Operation: Weekdays 8:00 AM – 5:00 PM CT

Warranty Information

PipeBurst Pro Products 7 Year Limited Warranty

Please visit:

www.pipeburstpro.com/warranty-registration
 to review full warranty details, register your system, and
 activate your warranty.

Installation and Operation of an RS Device

Learning RS Devices With The VIP

1. Power on RS Devices using AC Power.
2. On the VIP, press and hold Button 1 until the VIP chirps constantly, then release Button 1 to enter Learn Mode.
3. On the RS Device, press and hold the red SYNC button until it begins to chirp constantly, then release the button.
 - The RS Device will beep 3 times when connected successfully with the VIP.
4. Repeat step 3 until all the RS Devices have been learned by the VIP.
5. On the VIP, press and release Button 1 to exit Learn Mode.

RS Device Placement

1. Place an RS Device at each desired location.
2. Apply AC power to the RS Device
3. Once an RS Device is in its desired location and running on AC power, press and release the red SYNC button.
 - 3 quick chirps means that the RS Device is communicating properly with the VIP.
 - 2 long chirps means that the RS Device is synced to a VIP and failed to communicate with the VIP.
 - 1 long chirp means that the RS Device is not synced to a VIP.

RS Device Operation

1. To change the Zone State, press and release the Blue, SW1, button near the Relay Terminal.
 - A steady green light indicates that the Zone State is ON.
 - A steady red light indicates that the Zone State is OFF.
2. To mute a Zone Alarm, press and release the Blue, SW1, button near the Relay Terminal when the RS Device is in alarm.
 - A flashing red light and/or Audible Alarm indicate that the Zone is in alarm.

RS Device Standard Settings Summary

Setting	Configuration		
Temperature Threshold	Less Than or Equal To 41°F (5°C)		
Temperature Threshold Action	Zone Alarm		
Button Action	Zone State Button		
Data Recording Interval	6 hours		
Audible Alarm	Enabled		
Relay Operation	Relay Changes with Zone State		
Input 1	FloMeter	Timer	30 minutes
		Min Threshold	40 Pulses
		Min Action	Log Only
		Max Threshold	67 Pulses
		Max Action	Log Only
Input 2	Pull Up		

Warnings and Precautions

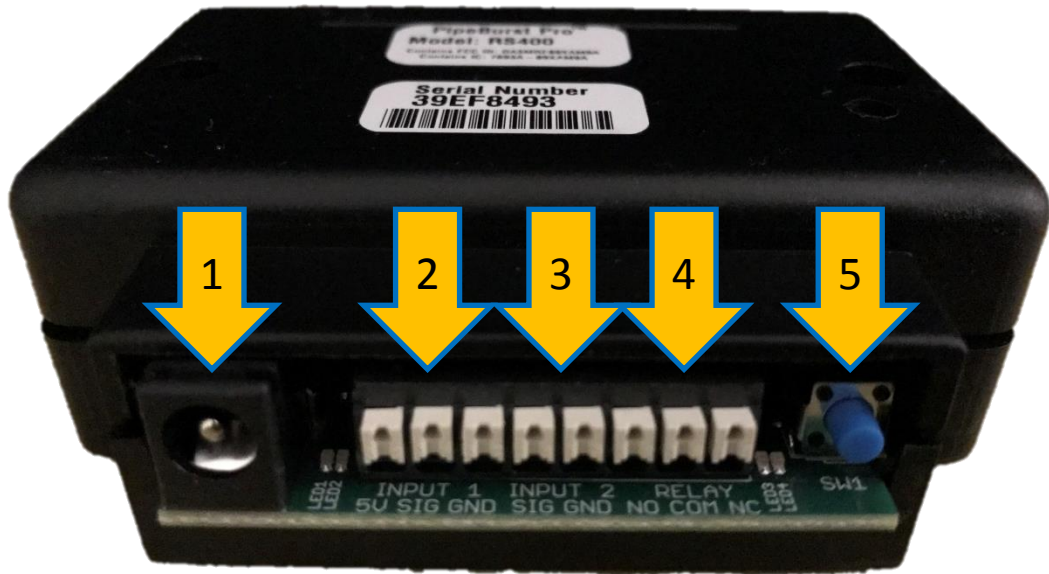
- RS Devices operate on communications frequencies which are subject to FCC rules and regulations.
- Placing RS Devices near large metal objects may decrease or block wireless coverage.
- End User is responsible that the RS Device functionality and installation meets the desired requirements.
- This manual may be updated or changed without advanced notice
- To learn about changing settings via ionleaks.com, refer to the ionleaks.com User Manual.
- To learn about changing settings via USB Flash Drive, refer to the Wireless Device Technical Appendix.

Wireless Regulatory Information
Model: RS
Contains FCC ID: OA3MRF89XAM9A
Contains IC: 7693A-89XAM9A
Frequency Range: 915 MHz

Maintenance Tips for Optimal Device Performance

- Clean RS Device housing, on a regular basis, with a damp cloth.

RS Device Wiring Diagrams



- | | |
|-----------------------|----------------------|
| 1. 5V AC Power Supply | 4. Relay Out |
| 2. Input 1 | 1. Normally Open |
| 1. 5V Out | 2. Common |
| 2. Signal In | 3. Normally Closed |
| 3. Ground In | 5. Zone State Button |
| 3. Input 2 | |
| 1. Signal In | |
| 2. Ground In | |

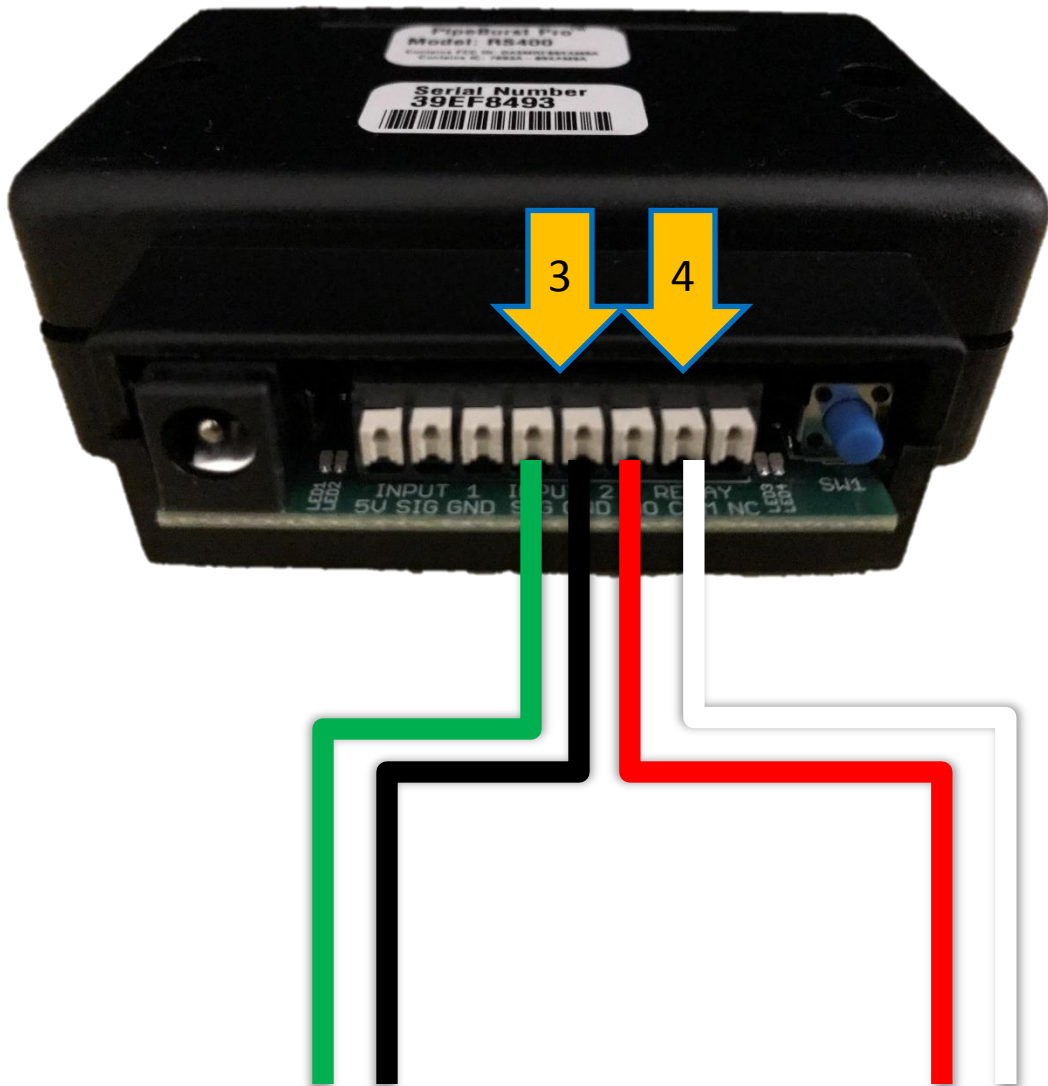
RS Device Wiring Diagrams

WaterValve - Control Only



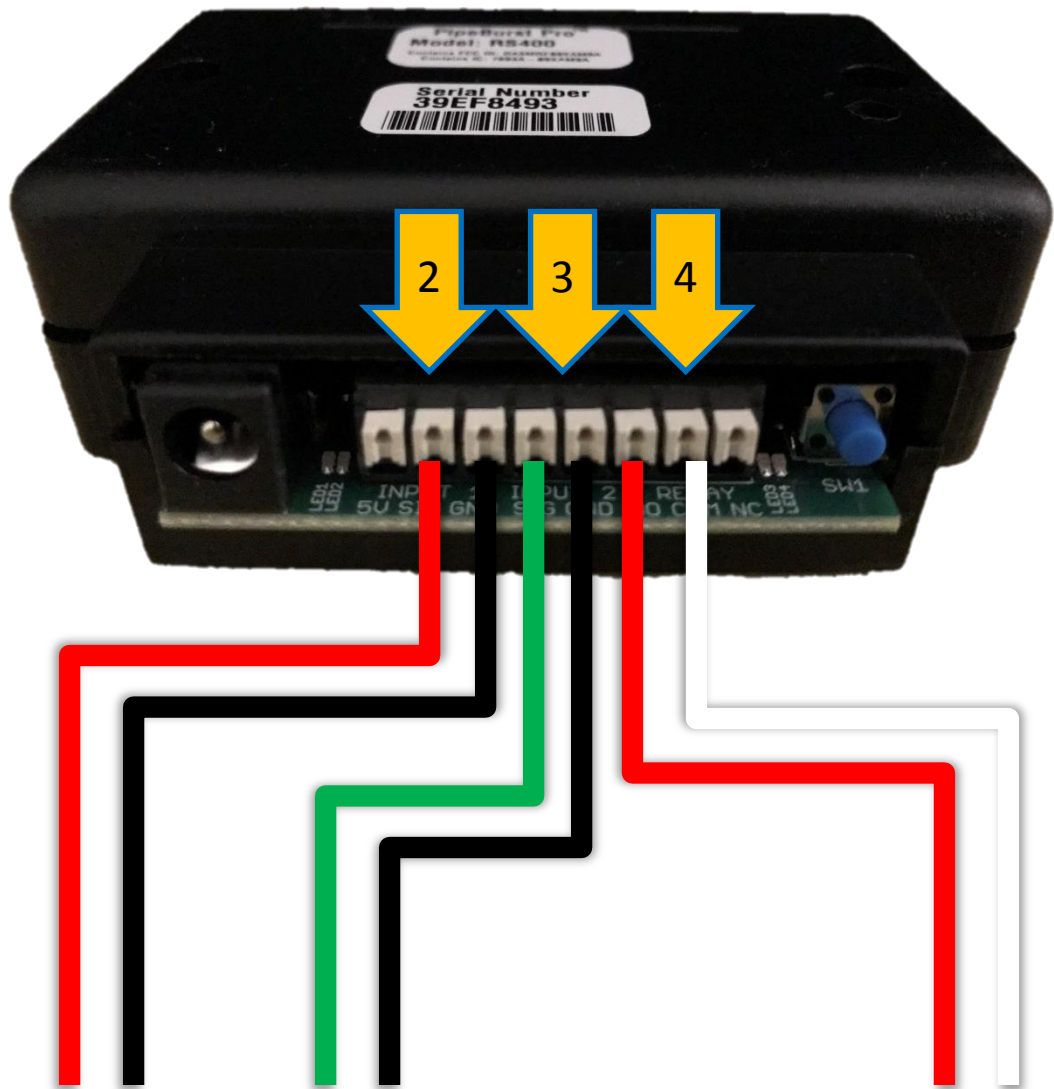
RS Device Wiring Diagrams

WaterValve – Control and Feedback



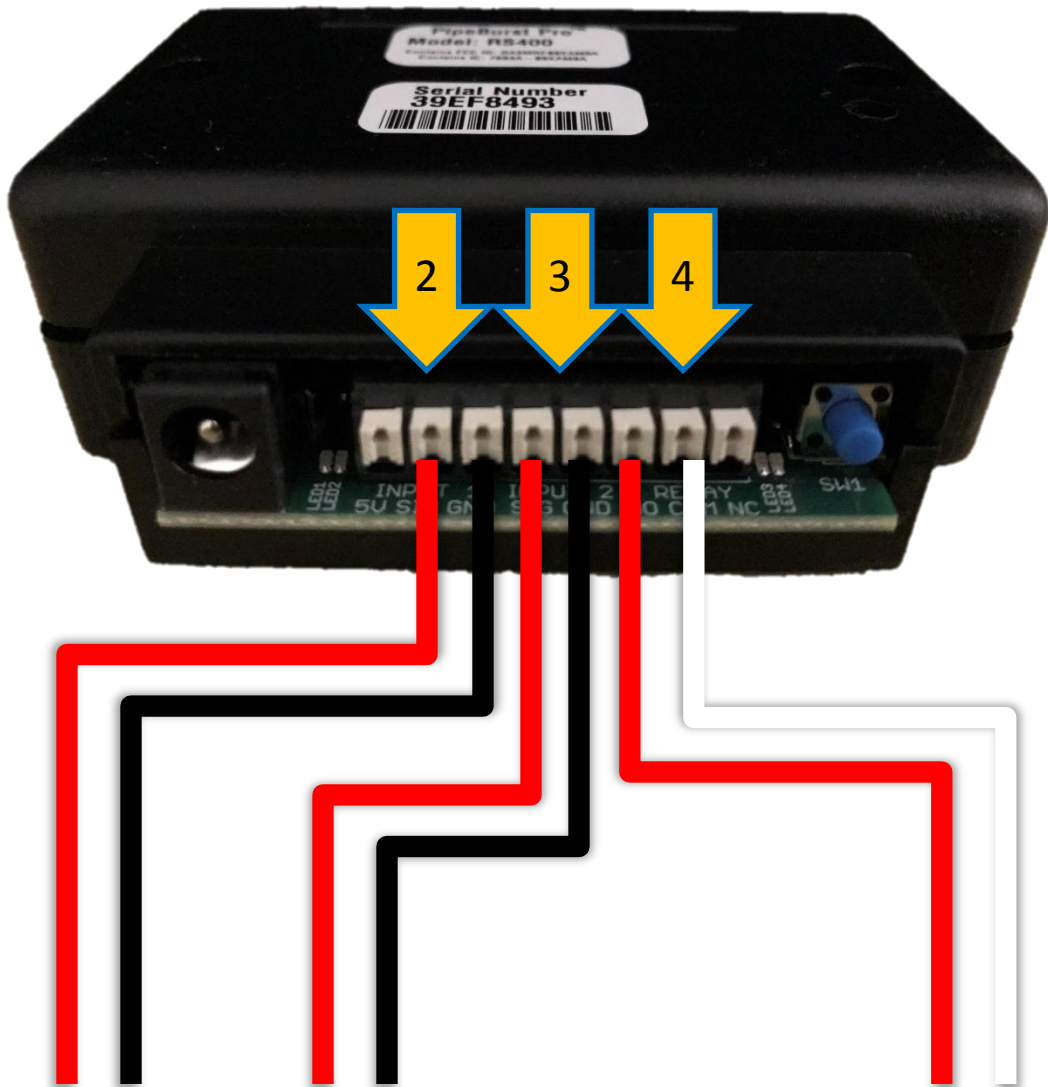
RS Device Wiring Diagrams

WaterValve – Control and Feedback Plus FloMeter



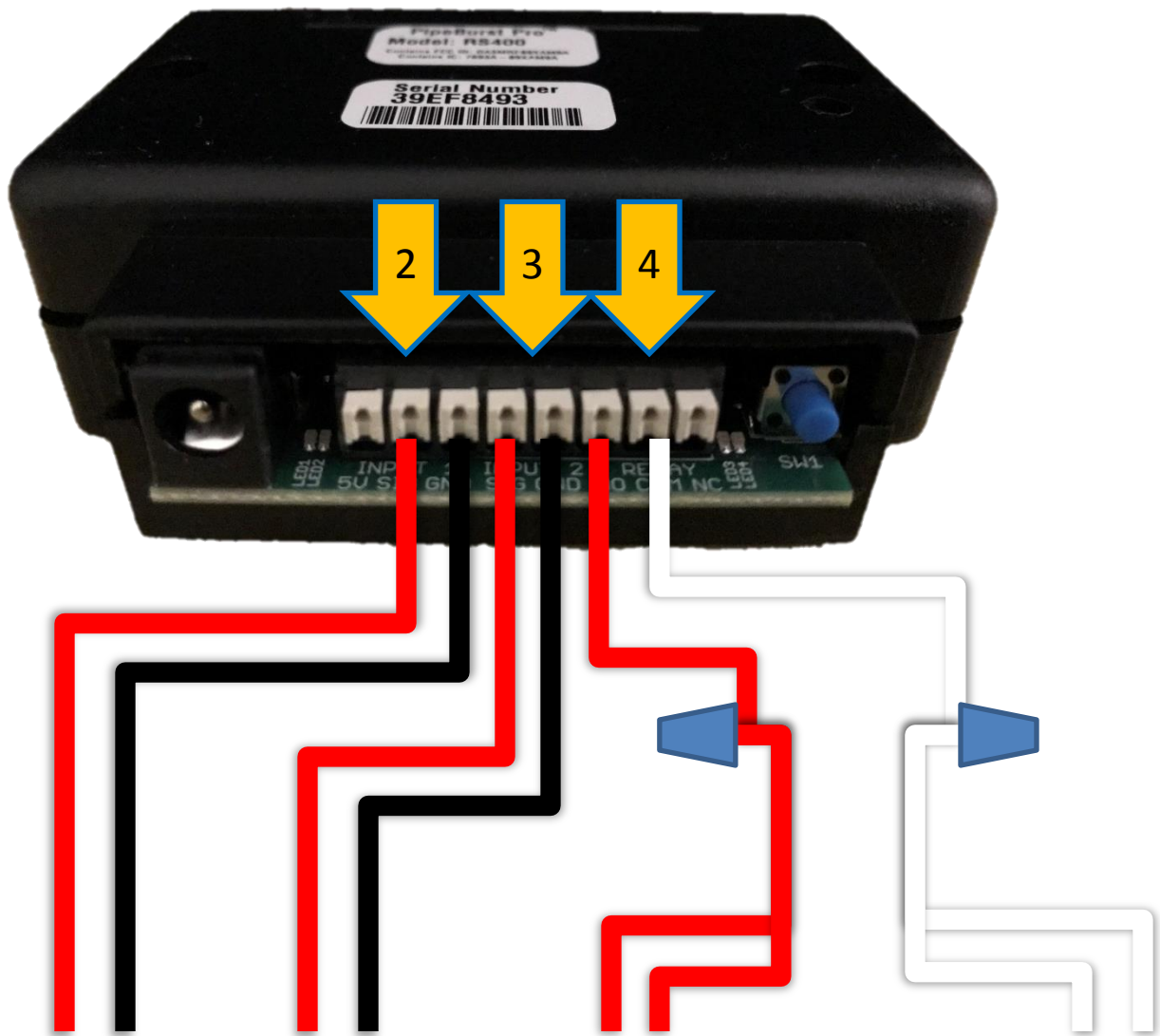
RS Device Wiring Diagrams

WaterValve Control and Dual FloMeters



RS Device Wiring Diagrams

Dual WaterValve Parallel Control and Dual FloMeters



RS Device Wiring Diagrams

Multiple WaterValves – Parallel Control Only

