Wet Switch®
Dual Voltage Flood Detector WS-2DV

WS-2DV prevents flooding and property damage by detecting moisture caused by accumulation of air-conditioning condensate, drain leaks, etc. When moisture is detected, the contacts controlling the system are disconnected. An additional contact connection is included, that may be used to operate an alarm device as well. Multiple WS-2DV may be connected in series (within the electrical limits of the power supply), to expand coverage area. WS-2DV incorporates isolated relay contacts, for added flexibility in installations with electronic control boards where breaking one lead from the transformer is not possible.

Installation

1. Turn off power to the system.
2. Place WS-2DV, padded side down, on the surface to be monitored.
3. Connect wiring as shown in the diagrams on page 2.
   Wires may be extended, but avoid excess run lengths.
4. Restore power to the system.
5. Press “TEST” to assure proper function.

⚠ It is recommended to verify operation of WS-2DV using the **TEST** and **RESET** buttons at time of installation and at least annually thereafter.

Controlling Selected Components

System components such as compressors, electric valves, condenser pumps, chill water pumps, or other 24 VAC controls may be connected selectively and independently to WS-2DV.
WS-2DV can be powered from either VAC and VDC sources. Operation of the contacts varies depending on type of power provided:
NOTE: **"-"** indicates relay connection.

	12 to 30 VAC	12 VDC
No Power	ORG-GRN WHT	ORG-GRN WHT
Dry & Power	ORG-GRN WHT	ORG GRN-WHT
Wet & Power	ORG GRN-WHT	ORG-GRN WHT

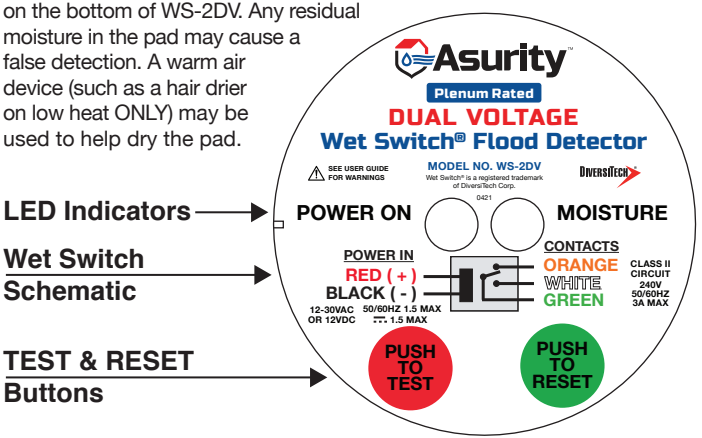
Status Indications & Operation

Normal State: When power is applied and no moisture is detected, the “POWER ON” LED will be lit green, and the “MOISTURE” LED will be OFF.

Pressing the **TEST** button simulates moisture detection and confirms proper function of WS-2. “MOISTURE” LED will be lit red, & “POWER” LED will be OFF.

Press the **RESET** button to return WS-2DV to normal state.

When moisture is detected, the control circuit is opened, and the “MOISTURE” LED is lit red. WS-2DV will remain in this state until the problem is corrected and the **RESET** button is pressed, or power is disconnected. After correcting the moisture problem, & with power disconnected, use a clean, absorbent cloth to thoroughly dry the sensor pad on the bottom of WS-2DV. Any residual moisture in the pad may cause a false detection. A warm air device (such as a hair drier on low heat ONLY) may be used to help dry the pad.



Model: WS-2DV

WET SWITCH® DUAL VOLTAGE SPECIFICATIONS

Dashed lines indicate field wiring

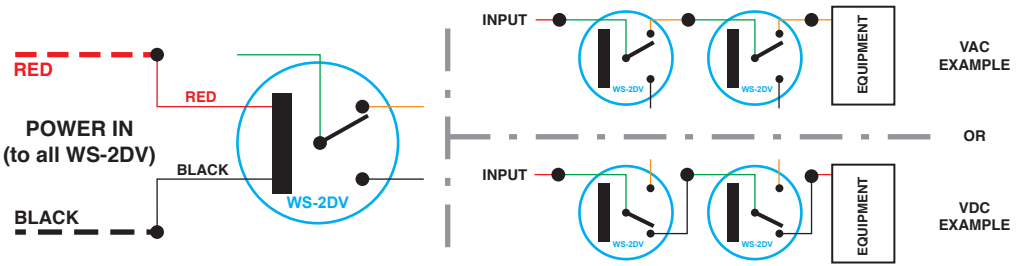
⚠ This product is intended to be installed and connected to a suitable power source, which employs appropriately rated current limiter, by qualified personnel.
⚠ In a wet location, circuit rated above 16 VAC or 35 VDC can cause electrical shock.
⚠ Unit is not to be placed or kept under water.

LED INDICATORS:
Green: Power On, Normal State
Red: Moisture Detected

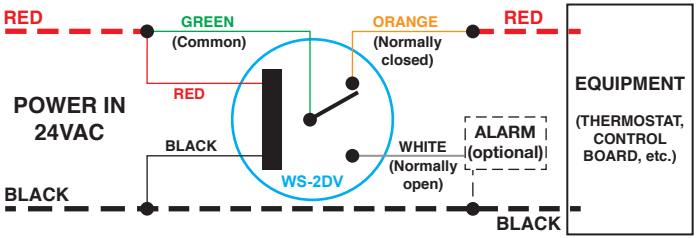
POWER REQUIREMENTS:
12 to 30 VAC, 50/60 Hz, 1.5 Watts max
12 VDC, 1.5 Watts max

RELAY:
Isolated Contacts: 3 Amps (max) @ 240 V

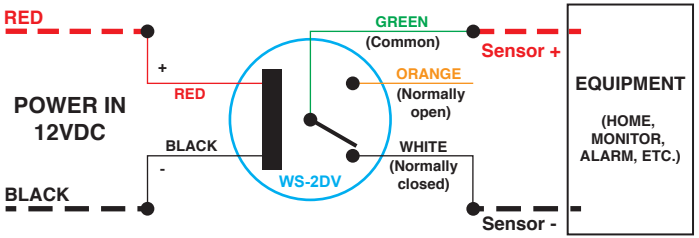
Two or More Wet Switches in Series: Moisture detection by either switch interrupts the circuit



VAC Typical Wet Switch Connection:



VDC Typical Wet Switch Connection:



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