

Series WDS-BB

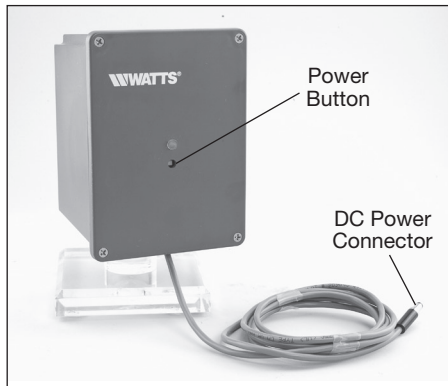
FloodSafe® Water Detector Shutoff Battery Backup

The WDS-BB will provide up to 96 hours of full WDS operation during power outages.

Installation Instructions

Mount the WDS-BB module within 6 feet of the WDS control module. Use the included bracket and screws to mount the unit to a cold water pipe, or use the keyhole slots on the back of the module to mount to a flat surface.

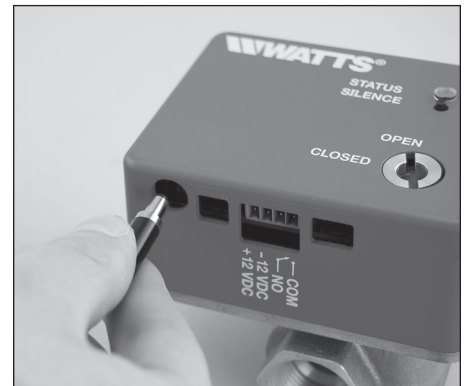
NOTE: In order to ensure proper installation, do not mount the WDS-BB on a hot surface.



Battery Backup



Battery Backup and Control Unit



Connection to Control Unit

Power Connection and Self-test

1. The WDS-BB unit comes with a DC Power Connector and an On/Off Switch. The DC Power Connector plugs into the DC power port of the WDS Control Unit. The recessed On/Off Switch is located under the indicator LED on the front cover. Use a pen or small screwdriver to operate the switch; the down position is off, the up position is on. The unit is shipped with the switch in the off position.
2. To connect the WDS-BB to the WDS Control Unit and initiate the self-test, turn the WDS-BB on by depressing the power button. The LED on the WDS-BB will blink red when initially turned on. Plug the DC Power Connector into the WDS control unit within 30 seconds.
3. At the end of 30 seconds, the WDS-BB will conduct a 10-second self-test. During the test, the LED will be green.
4. At the end of the self-test, the indicator LED should turn steady red indicating that the battery is charging. NOTE - If the battery is already fully charged, the LED will turn steady green.
5. When the battery is fully charged (this could take up to 24 hours depending on the state of the battery), the indicator LED will turn steady green and the WDS-BB is fully functional.

Test Installation

Once the battery is fully charged the WDS-BB is ready for service. Test the unit by removing the power to the WDS Control Module by unplugging its power supply transformer. The WDS-BB LED should change from steady green to blinking green and the WDS Control Module LED should remain green.

Troubleshooting

If the WDS-BB LED does not turn steady red or steady green after 1 minute, restart the self-test cycle by unplugging the DC connector from the WDS Control Module port and turning off the WDS-BB switch. When the unit is unplugged and the switch is turned off, the LED should be off on the WDS-BB. Repeat step 2.

Refer to the Troubleshooting chart for further assistance.

CALIFORNIA PROPOSITION 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. (California law requires this warning to be given to customers in the State of California.)

For more information: www.watts.com/prop65

WDS-BBU - Status Light							
Status	Battery State	Charger Circuit	Switch State	DC Connector	AC Power	Light Status	Comments
Normal Operation							
Ready	Charged w/Power	Charging (low current)	On	Connected	On	Green	The BBU is charged and the customer will be protected in the event of an AC power outage.
Back-Up	Charged w/Power	Discharging	"	"	Off Power Loss	Blinking Green	The BBU is providing power to the valve controller during an AC power outage.
Low Battery	Battery Drained	"	"	"	Off Power Loss	Dim Blinking Red	The AC power has been out for several days and the BBU is too low to power the valve controller.
Charging	Low Battery Voltage	Charging (high current)	"	"	On Power Restored	Red	The AC power has been restored and the battery is re-charging.
Defective Unit							
Defective	Blown Fuse	N/A	ON	Connected	On	Green To Blinking Red (Green Up To 5 Hrs)	The fuse in the BBU has been blown and the unit is not operable. The green light will only remain on for 10 seconds if fuse is blown during installation.
	Not Connected	"	"	"	"	Green To Blinking Red (Green Up To 5 Hrs)	The battery is not properly connected internally and the unit is not operable. The green light will only remain on for 10 seconds if fuse is blown during installation.
	High Impedance	"	"	"	"	Green To Blinking Red (Green Up To 5 Hrs)	The battery has gone defective internally and the unit is not operable. The green light will only remain on for 10 seconds if fuse is blown during installation.
Improper Installation							
Not Installed Properly	Connected	Discharging	On	Not Connected	On	Blinking Green	The DC cable is not connected and the BBU will not provide power to the valve controller in the event of a AC power loss.
	Connected	N/A	OFF	Not Connected	Any	Off	The BBU switch is off and the unit cannot provide power to the valve controller.
	Not Connected	"	On	Not Connected	"	Off	The BBU is not assembled properly and the DC cable is not connected. The BBU cannot provide power to the valve controller.
	Connected	"	OFF	Connected	On	Blinking Red (Green For 10 Sec)	The BBU is not turned on and the DC cable is not connected. The BBU will not provide power to the valve controller in the event of a AC power loss.
	Not Connected	"	OFF	"	"	Blinking Red (Green For 10 Sec)	The BBU is not assembled properly or turned on. The BBU will not provide power to the valve controller in the event of a AC power loss.
	Not Connected	"	ON	"	"	Blinking Red (Green For 10 Sec)	The BBU is not assembled properly and the BBU will not provide power to the valve controller in the event of a AC power loss.
	Connected	"	OFF	Connected	OFF	Off	The BBU is not turned on. The BBU cannot provide power to the valve controller.
	Not Connected	"	OFF	"	OFF	Off	The BBU is not assembled properly or turned on. The BBU can not provide power to the valve controller.
	Not Connected	"	ON	"	OFF	Off	The BBU is not assembled properly and the BBU cannot provide power to the valve controller.

Limited Warranty: Watts Regulator Co. (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

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The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

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