



## Product Data Sheet

# Defender Water Shutoff

Cellular LoRaWAN® Solution

### Help protect your property and equipment with a smart water shutoff solution

The Defender Water Shutoff, part of the Meshify Defender™ sensor solution suite, can remotely shut off your water valves when leaks are detected. With remote shutoff access, you can help protect your property, equipment, and systems from extensive damage caused by water leaks.

The Defender Water Shutoff is a non-invasive solution designed to be easily installed over your existing plumbing in minutes. It is compatible with most quarter-turn ball valves from 1/2" up to 2".

#### Key Features:

- For indoor and outdoor use
- Easy to install on existing ball valves
- Fits 1/2" to 1 1/4" ball valves (up to 2" with an adapter kit)
- Open or shut off your valves with the Meshify Protect app
- LoRaWAN Class C



meshify defender™

Meshify's next generation LoRaWAN sensor supports a variety of property and equipment monitoring applications with long range and extended battery life.



meshify protect™

Proprietary mobile app for activating Meshify sensors and monitoring locations, even when no one is there. Available for iOS and Android.

#### For more information, contact:

HSB Sensor Solutions  
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## Technical and Functional System Specifications

<b>Mechanical</b>	Dimensions	6.0" x 5.5" x 3.75" (152 x 140 x 95 mm)
	Interclamp Clearance	Adjustable: 2.5"–4.9" (63.5 mm–124.4 mm)
	Clamp Adjustable Span	Adjustable: 4.3"–6.6" (109.2 mm–167.6 mm)
	Weight	Without Power Adapter: 18.24 oz (517 g) With Power Adapter: 20.92 oz (593 g)
	Motor Torque Power	Adaptive Torque Output Max: 8n.m
	Operating Temperature	14°F to 122°F (-10°C to +50°C)
	Operating Humidity	8% to 80%
	Action Button	Touch Sense Button x 1
	LED & Sound Indicator	3-Color LED (RGY) Buzzer: Max 85dB
	Case Material	Acrylonitrile Styrene Acrylate
	Valve/Pipe Sizes	Ball Valve ½" to 1¼" Pipe 1½" – 2" Pipe with Adapter Kit
	IP Rating	IP66 (Outdoor Deployable)
	<b>Power Requirements</b>	Voltage/Frequency
Power Consumption		Max: ~700mA @12VDC = 8.4W (Full operation) ~10mA @12VDC = 0.12W (Standby)
Power Source		Wall Outlet
<b>LoRa Radio</b>	Region Frequency	NA915, FCC CFR47 Part 15.249
	LoRaWAN® Class	LoRaWAN Class C v1.0.3
	LoRa® Antenna	Internal LoRa Antenna
	RF Distance	Indoor: Max 40m/131 ft Outdoor: Max 120m/394 ft
<b>Sensors</b>	Temperature	-40°F to 257°F (-40°C to +125°C) Ambient Temperature
	External Attachments	Leak Probe
<b>Certifications</b>	Regulatory	FCC, IC, LoRa Alliance®

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with the FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.