



## Product Data Sheet

# Defender S Leak Sensor

### Help protect your property and equipment with smart leak monitoring

The Defender S Leak Sensor, part of the Meshify Defender™ sensor solution suite, detects leaks near your equipment and systems on your property. With early leak detection, either caused by frozen burst pipes, equipment or system failures, you can help prevent extensive property damage with a leak sensor.

The Smart Leak Sensor leverages Amazon Sidewalk to provide wireless connectivity over long distances without the need for a gateway or Wi-Fi.

#### Key Features:

- Wireless, battery-powered water sensor
- Detects water on contact
- IP66 (Ingress Protection) rated for protection against dust and high-pressure water jets
- Easy activation and alert monitoring via the Meshify Protect app
- Optional temperature probe, leak probe, and leak rope attachments



Meshify's next generation sensor works with Amazon Sidewalk and 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:

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## Technical and Functional System Specifications

|                                             |                                        |                                                                                        |
|---------------------------------------------|----------------------------------------|----------------------------------------------------------------------------------------|
| <b>Mechanical</b>                           | Dimensions                             | 3.41" x 1.3" (8.67 cm x 3.3 cm)                                                        |
|                                             | Sensor Weight                          | Without Batteries: 3.28 oz (93 g)<br>With Batteries: 4.34 oz (123 g)                   |
|                                             | Mounting Bracket Weight                | 0.42 oz (12 g)                                                                         |
|                                             | Operating Temperature                  | -40°F to +176°F (-40°C to +80°C)                                                       |
|                                             | Operating Humidity Range               | <80% Constant Humidity                                                                 |
|                                             | Case Material                          | White PC-ABS                                                                           |
|                                             | IP Rating                              | IP66                                                                                   |
| <b>Physical Interface/Connections</b>       | Device Interface/Connector(s)          | 3.5mm Female Jack for Optional Sensor Attachments                                      |
| <b>Power Requirements</b>                   | Internal Battery                       | 2 x Lithium Ion AA 1.5v Batteries (Replaceable)                                        |
| <b>Sensors</b>                              | Water Sensitivity                      | 400k Ohm trigger point. Water less conductive than this will not set off the detector. |
|                                             | Temperature Accuracy                   | -4°F to 176°F, ± 1.8°F (20°C to +80°C, ± 0.2°C)                                        |
|                                             | Accelerometer                          | 3-Axis, Motion, Vibration, Shock                                                       |
|                                             | Optional Attachments (via Female Jack) | Temperature Probe<br>Leak Rope<br>Leak Probe                                           |
| <b>LoRa Connectivity and Certifications</b> | RF Frequency:                          | 915MHz                                                                                 |
|                                             | Wireless Range:                        | Indoors: Max 300 ft (106.7 m)<br>Outdoors: Max 1000 ft (304.8 m)                       |
|                                             | Regulatory                             | FCC                                                                                    |

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.