

# Meshify Pipe Temperature Sensor

## HSB

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The Meshify Pipe Temperature Sensor is designed for indoor residential or commercial applications to detect multiple environmental conditions. The sensor is not intended for industrial or heavy duty use. The sensor is powered by a two replaceable AA batteries, eliminating the need for an electrical outlet.

The sensors communicates with the Indoor IoT Gateway using LoRaWAN™ protocol, prolonging battery life and providing extended communication range when compared to other protocols. The sensor sends updates to the gateway at a user configurable rate. The sensor comes with an LED light indicating power and connectivity to the gateway.

The sensor can be configured to measure ambient room temperature, humidity levels and pipe temperature through use of attached probe, depending on desired application.

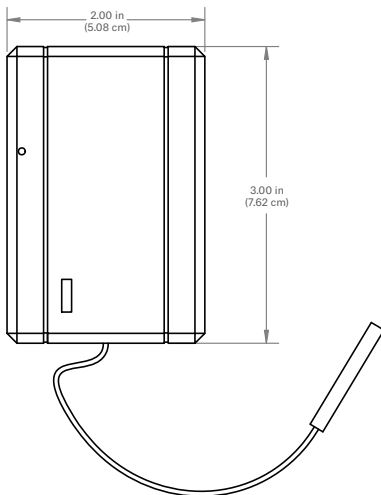
### Key Features:

- Battery powered (lithium AA batteries)
- Operational status LED
- LoRaWAN™ protocol

## Technical and Functional System Specifications

RF Frequency:	902.3-914.9MHz
Operating Temperature Range:	-40°C to 60°C (-67°F to +185°F)
Optimal Battery Temperature Range:	-40°C to 60°C (-67°F to +185°F)
Operating Humidity Range:	<80% constant humidity
Weight:	60 g (2.12 oz) (w/o batteries) 90 g (3.17 oz) (w/batteries)
Wireless Range:	350 ft indoors, up to 1000 ft outdoors
Temperature Sensor Accuracy:	From 0°C to 80°C, +/- 1°C
Temperature Probe Accuracy:	-30°C to 110 °C, +/- 1°C
Battery Type	2x AA Energizer Ultimate Lithium (recommended) Lithium / Iron Disulfide (Li/FeS2) Battery Shipping Regulation Guidance: <a href="http://data.energizer.com/pdfs/lithiumirondisulfide_psd.pdf">http://data.energizer.com/pdfs/lithiumirondisulfide_psd.pdf</a>
Case Material	White ABS
Certifications:	FCC ID: 2AQ34-TDUS-05-04 IC: 24974-85813500704

## Dimensions:



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 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 all persons. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada license-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) L'appareil ne doit pas produire de brouillage;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**NOTE:** This equipment complies with RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

**REMARQUE:** Cet équipement est conforme aux limites d'exposition aux radiations RSS-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

Any changes or modifications to this device not approved by Hartford Steam Boiler or Meshify could void the user's authority to operate the equipment.