SunPeak
Innovations

LoRaWAN autonomous pipeline leak monitoring sensor

SP Leak
Datasheet

⭕ Description

SP Leak is a sensor for monitoring the leakage of water supply pipelines, which signals the presence of water on the floor surface in a room and works by measuring electrical resistance. The sensor does not require an Internet connection and transmits notifications via the LoRaWAN radio network, for example, the Helium network, and further to the SunPeak cloud service.

In case of a leak, you will receive an SMS notification or a push notification in the app. Together with other SunPeak sensors and actuators, you can easily create a monitoring and control system for your home or business, ensuring its safe and efficient operation.

Note: The device requires LoRaWAN Helium Network radio coverage, on the basis of which the SunPeak system operates. Before installation, do not forget to scan the QR code on the label of the device, then the data will be automatically received by your SunPeak application. For use with private LoRaWAN networks, you need to configure your network server using the included network keys.

⭕ Safety Information

Keep the device away from fire or hot environments.
Do not attempt to disassemble, repair, or modify the device. If you need service, please contact us.
Do not use the device where wireless devices are not allowed.

CAUTION!
Avoid replacement of a battery with an incorrect type that can defeat a safeguard.
Avoid disposal of a battery into fire or a hot oven, or mechanically crushing or cutting a battery, as this can result in an explosion.
Do not leave a battery in an extremely high-temperature surrounding environment, as this can result in an explosion or the leakage of flammable liquid or gas.
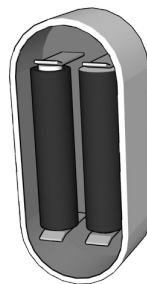Do not leave a battery subjected to extremely low air pressure, as this can result in an explosion or the leakage of flammable liquid or gas.

SunPeak
Innovations

◉ Quick start guide

1.Download the SunPeak app for Android or iOS or use the web version of the SunPeak service.sunpeaki.com

2. Log in using your phone number and add the device to your workspace by scanning the QR code on the device body or manually entering the serial number.

3. Install the two batteries from the supplied package observing the specified polarity in the main unit and close it with a click.

Note: Make sure that the spring contacts of the sensors of the device cover are clearly located at the corresponding points of the board.

4. Install the sensor in the place of a potential leak by securing it to the floor with adhesive tape. It should be borne in mind that the reception area of the radio signal may be worse away from the windows.

Note: the device will not be able to connect to the Radio network automatically unless step 2 is completed.

SP Leak

5. Create your object in the SunPeak app or web version of the service, add this sensor to leakage control in the object settings.

Note: If the signal level at the installation site is sufficient, the system usually needs 15-30 minutes to receive and process data from the sensor, after which you will be able to see them in relation to the object.

The absence of data in the system, as well as regular flashes of red indicate insufficient LoRaWAN signal at the installation site. In this case, check the radio coverage in your location on our website and try to place the device, if possible, higher and in a more open space.

SunPeak
Innovations

⬤ Specifications

Wireless Transmission	
Technology	LoRaWAN®
Frequency	EU868/US915/IN865/AS923/AU915/RU864
Tx Power	+17dBm/+19dBm
Sensivity	-130 dBm
Mode	1.0.4 OTAA/ABP Class A
Operation	
Power On/Off	By batteries installing
Configuration	Not req., getting data via the SunPeak app
Physical Characteristics	
Power supply	3V (2x AAA size)
Battery life	>2 years (3 triggers per day)
Operating temperature	-40°C to +70°C
Ingress Protection	IP54
Dimension	70 x 30 mm
Installation	on the floor in the place of a potential leak on a sticky tape

SunPeak Innovations

www.sunpeaki.com
info@sunpeaki.com

Gldanis Khevi 3
0167 Tbilisi, Georgia