

# Liquid leak detection sensor



## Main characteristics

- Detects liquid leaks at designated points

## Applications

- Pipes and fittings for liquids
- Liquid tanks
- Sewage systems
- Engine rooms
- Data centers
- Smart home/office

## Overview

Leaks are detected whenever a small amount of liquid has accumulated between the sensor's two stainless steel tips.

This contact is detected by the [LoRa](#) or [ZigBee Endpoints](#), which sends a signal to the [ITG gateway](#) warning of a liquid leak at the sensor's site of installation

## Available model

| Model           | Description                      |
|-----------------|----------------------------------|
| <b>KWS-2001</b> | Single point liquid leak sensor. |

## Operating the sensor

The liquid leak sensor must be associated with a [LoRa Endpoint](#) or be connected to an [ZigBee Endpoint](#). Once the sensor has been connected, the collected data can be sent to the [ITG gateway](#).

When the presence of liquid is detected at the two sensor detection points, the circuit is closed and an alert is sent to the ITG gateway. In order to be detected, the same liquid must come into contact with the two sensor points, at which point the liquid present forms a conductive pathway between the points.

Liquids will not be detected if they are only present at one of the two points.

The alert is sent from the endpoint to the gateway for the period of time in which liquid is present between the two sensor points. Once the liquid is removed, the alert will no longer be sent.

The sensor's metal pins must not be installed in a manner in which they come into contact with electrically conductive surfaces or at locations presenting a high level of humidity in order to avoid a false alarm.

# Technical specifications

## Physical/Environmental

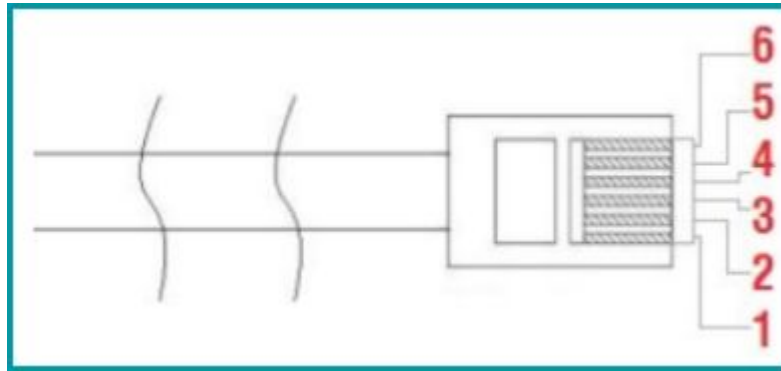
- ABS sensor body
- Stainless steel liquid contact tip
- Cable length: 1 meter
- RJ11 connector (pins 4 and 5 connected)
- Operating temperature: -10 °C to 60 °C (without condensation)
- Product dimensions: 58x20x12 mm
- Transport box dimensions: 100x95x60 mm
- Gross Weight: 74 g
- Net Weight: 26 g

## Warranties and certification

- Total warranty (legal warranty + Khomp warranty): 1 year
- Legal warranty: 90 days
- Khomp Warranty: 9 months
- ISO 9001-certified manufacturer

*\* Model details are provided in the subheading "available models".*

## RJ11 connector pinning



### Pinning legend:

- |                        |                        |
|------------------------|------------------------|
| 1. NC - Not Connected. | 4. SENSOR.             |
| 2. NC - Not Connected. | 5. GND (ground).       |
| 3. NC - Not Connected. | 6. NC - Not Connected. |

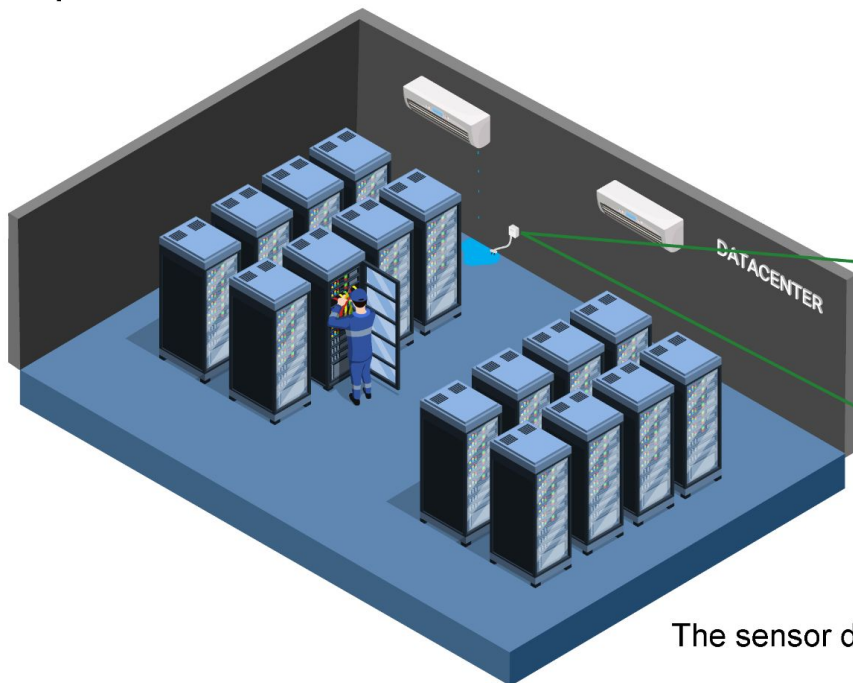
## Image of product connected to LoRa Endpoint



# Suggested applications

## KWS 2001

### Liquid Leak Sensor

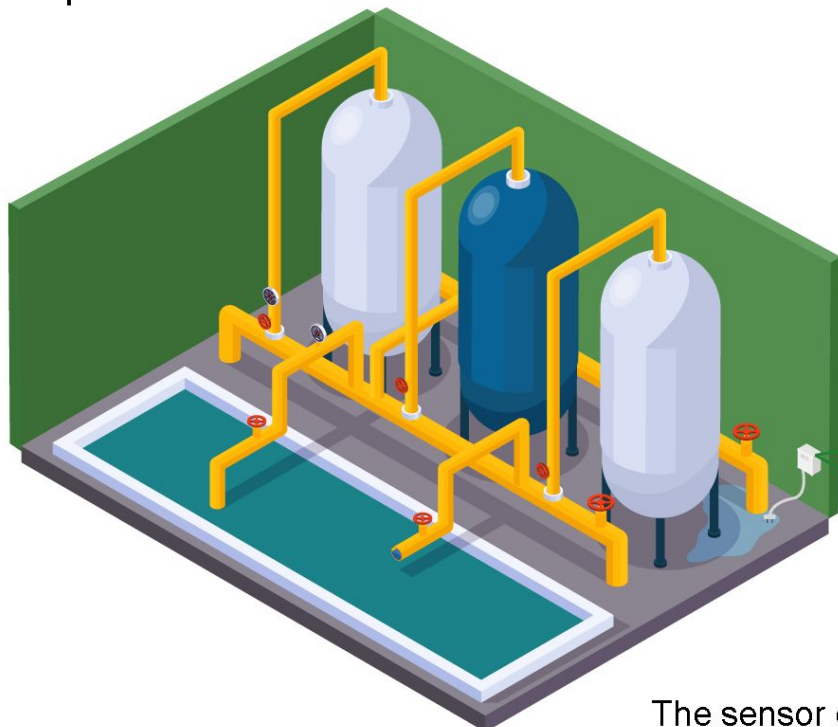


Endpoint NIT/NIR  
LoRa or Zigbee + Liquid Leak Sensor

The sensor detects the water leak in the air conditioner

## KWS 2001

### Liquid Leak Sensor



Endpoint NIT/NIR  
LoRa or Zigbee + Liquid Leak Sensor

The sensor detects water leakage in the reservoir piping