

# IoT Standalone GSM/GPRS 2G Sensor



## Main Features

- 2 ports, 1-Wire for connection with temperature, humidity, and contact sensors
- Data transmission over the 2G GPRS mobile network
- Integration with cloud via HTTPS
- Onboard temperature and humidity sensor\*

\* Available on the ITS 212 model only. Model at a different price point.

## Applications

- Health Care
- Agribusiness
- Industries
- Corporate

## Overview

The ITS is a Khomp IoT Endpoint that was developed to integrate with sensors of different sizes and types for your IoT solution. The ITS can be mounted at locations with no network infrastructure. The data read by the sensors connected to the Endpoint are sent to Khomp's cloud, or the cloud of an integrator through the 2G mobile network, offering flexibility with installation. By using multiple ITS Endpoints, your application can monitor a large area, such as a metropolitan region or rural areas where a 2G mobile signal is available.

The ITS makes it possible to develop complete solutions for monitoring the temperature and humidity of environments, as well as verification of the opening of doors when connected to a contact sensor. It is an ideal device for industrial, clinical laboratories, and agribusiness applications, with cameras or monitoring points that are isolated or distant from an Internet network, where a mobile network must be used to send data.

The ITS also has resources that further ensure the successful transmission of the data read by the sensors. It has an internal battery for contingencies in the event that there is an interruption in the power supply and, in addition, it can store approximately 72 hours of data if the mobile data network becomes unavailable.

## Models

The ITS has two models to make it easier to integrate

Model	Description
ITS 202 I	Indoor basic version
ITS 212 I	Indoor version with onboard temperature and humidity sensor

# Integrated humidity and temperature sensor

The ITS 212 has an integrated temperature and humidity sensor onboard, which allows it to read this information in the environment in which the ITS is installed. This makes it possible to monitor both the environment in which the ITS is installed, as well as the environment in which connected sensors are located.

## Technical specifications

### 2G Modem

- Frequency bands: 850/900/1800/1900 MHz
- Transfer rate: up to 9.6 Kbps
- SIM Card size: micro-SIM (2FF)

### Battery

- Lithium-Polymer (LiPO) 1500 mAh, 3.7 V

### Antenna

- 1x omnidirectional antenna
- Gain: 5 dBi
- Impedance: 50 Ohms
- Maximum power: 50 W
- Polarization: vertical
- VSWR: 1.5:1

### Warranties and certifications

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

### Security

- Sending messages via REST API over the HTTP protocol

## Physical/Environmental

- Indoor installation
- 2x RJ11 1-Wire
- 1x USB Micro-B (for power)
- Dimensions (W x H x L):
  - Without antenna: 79 x 95 x 36 mm
  - With antenna: 97 x 225 x 36 mm
- Power button
- Battery charge LED
- Battery charging status LED
- Transmission of data to cloud LED
- 2G network signal status LED
- Sensor read status LED/ITS status
- Support for wall mounting

## Product Images



Front View



Connectors View