

Technical features



- ✓ Ecco FREEZE is a precision meter for temperature and humidity in cold rooms
- ✓ Radio transmission of data through the Sigfox network
- ✓ Battery life from 2-6 years dependent on transmissions/day
- ✓ Bidirectional Communication Possibilities

Ecco Freeze is a ready-to-use radio transmitter for the detection and transmission of Temperature and Humidity data of any cold room.

Inside the cold room will be installed the Temperature and Humidity sensor **Ecco Freeze Minion** (Beacon) which constantly talks with **Ecco Freeze** (the transmitter) placed appropriately outside the cold room that sends the measured values of T and H from the Beacon to the customer platform.

Main features of the device:

- Real time and/or asynchronous data collection and transmission
- Compact and easy to install (no more than 5')
- Double input for temperature and humidity measurement
- Alarms on Temperature/Humidity thresholds
- Sensitivity: T +/- 0.2°C; U +/- 2%
- Battery status monitoring
- Low energy consumption
- Fully customizable firmware and sensor interface

Performance

- RF sensitivity: up to -127 dbm
- Range: up to 15 Km

Application features

- Remote/local thresholds alarm setting Firmware
- Sigfox network protocol
- Transmission: up to 144 messages day
- Cryptography to: AES128

Consumption and Requirements

- Operating voltage: 3.6 V
- Powered by high capacity Li-SOCL2 batteries
- Duration: up to 6 years

General informations

- Operating temperature: -30°C/55°C
- Fastening in 5 minutes
- Size: 80x80x25 mm
- Protection degree: IP40
- Standards: EN300-220, EN301-489, EN60950



- ✓ Ecco Freeze Minion is a device to be used in combination with the Ecco Freeze aimed at the correct functioning of the solution in the most difficult installations

Main features of the device:

- Powered by standard AAA alkaline mini-AA battery
- Operating voltage: 3 V
- Size: 80x40x24 mm
- Protection degree: IP30
- BLE communication protocol
- RF sensitivity: up to -85dbm
- Operating temperature: -20°C/55°C