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Temperature & Humidity Sensor Beacon

User Manual

V 1.0

BEC07-7
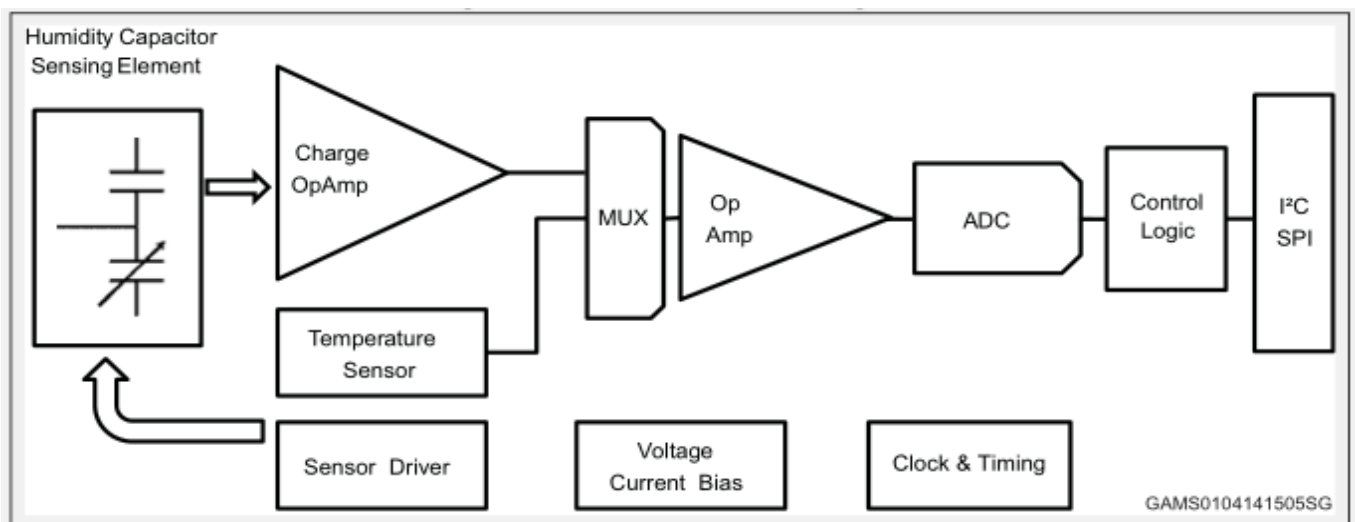
Contents

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1、 Product Introduce

1.1 Brief introduce

Temperature & humidity sensor beacon is a new generation sensor technology that JINOU company developed which based on Beacon. This product can send collected data to phone or gateway via Beacon broadcasting.

1.2 System picture

Pic 1 Temperature & humidity sensor beacon system

2、 Products Features

2.1 Module features

◆ Bluetooth version: 5.0 BLE

◆ Automatic power saving mode

◆ Compatible with FCC, CE, RoSH certificates

◆ Precisely show signal strength

◆ Having temperature & humidity testing information

◆ Able to set sampling frequency
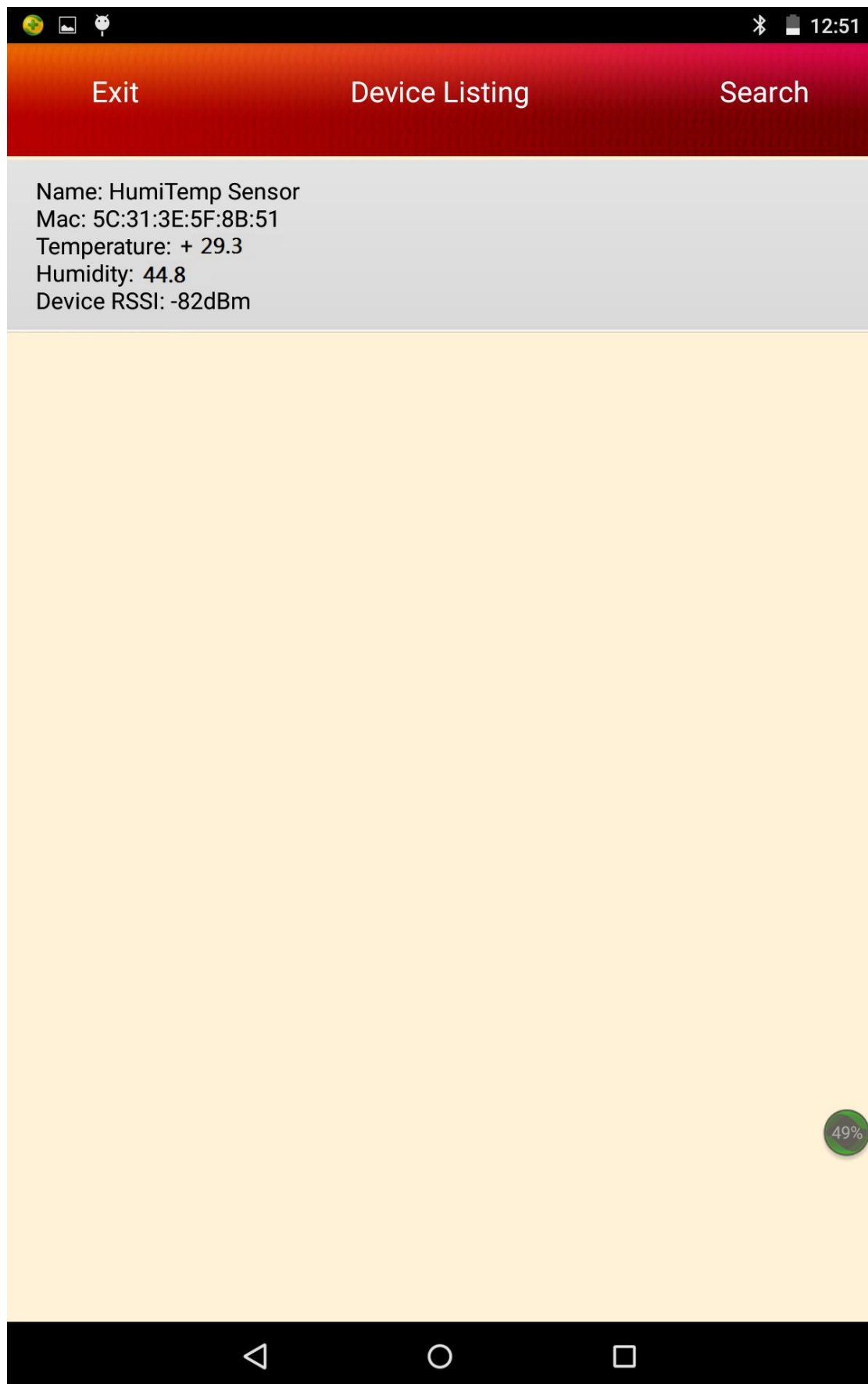
2.2 Main technical index

- ✓ Working frequency: ISM frequency 2.400~2.483GHz
- ✓ Bluetooth specification: V5.0BLE
- ✓ Spread spectrum method: FHSS
- ✓ Voltage: 2.7－3.3V
- ✓ Transmitting power: 0dBm
- ✓ Transmitting distance: 10-30m
- ✓ Receiving sensitivity: ＜－96dBm at ＜ 0.1% BER
- ✓ Store temperature: －55 ˚C ~ 125 ˚C
- ✓ Standby power: about 30uA
- ✓ Antenna standard: 2.4G, 50ohm
- ✓ Safety standard: AES 128bit
- ✓ Temperature measure range: －40 ˚C ~ +85 ˚C
- ✓ Temperature measure accuracy: between -10 ˚C ~ +85 ˚C, deviation is ±0.4 ˚C; between－40 ˚C ~ -10 ˚C, deviation is ±0.9 ˚C.
- ✓ Relative humidity measure range: 0 ~ 100%
- ✓ Humidity measure accuracy: between 0 +80% RH, deviation is ±3%; between 80 +100% RH, deviation is ±4.5%
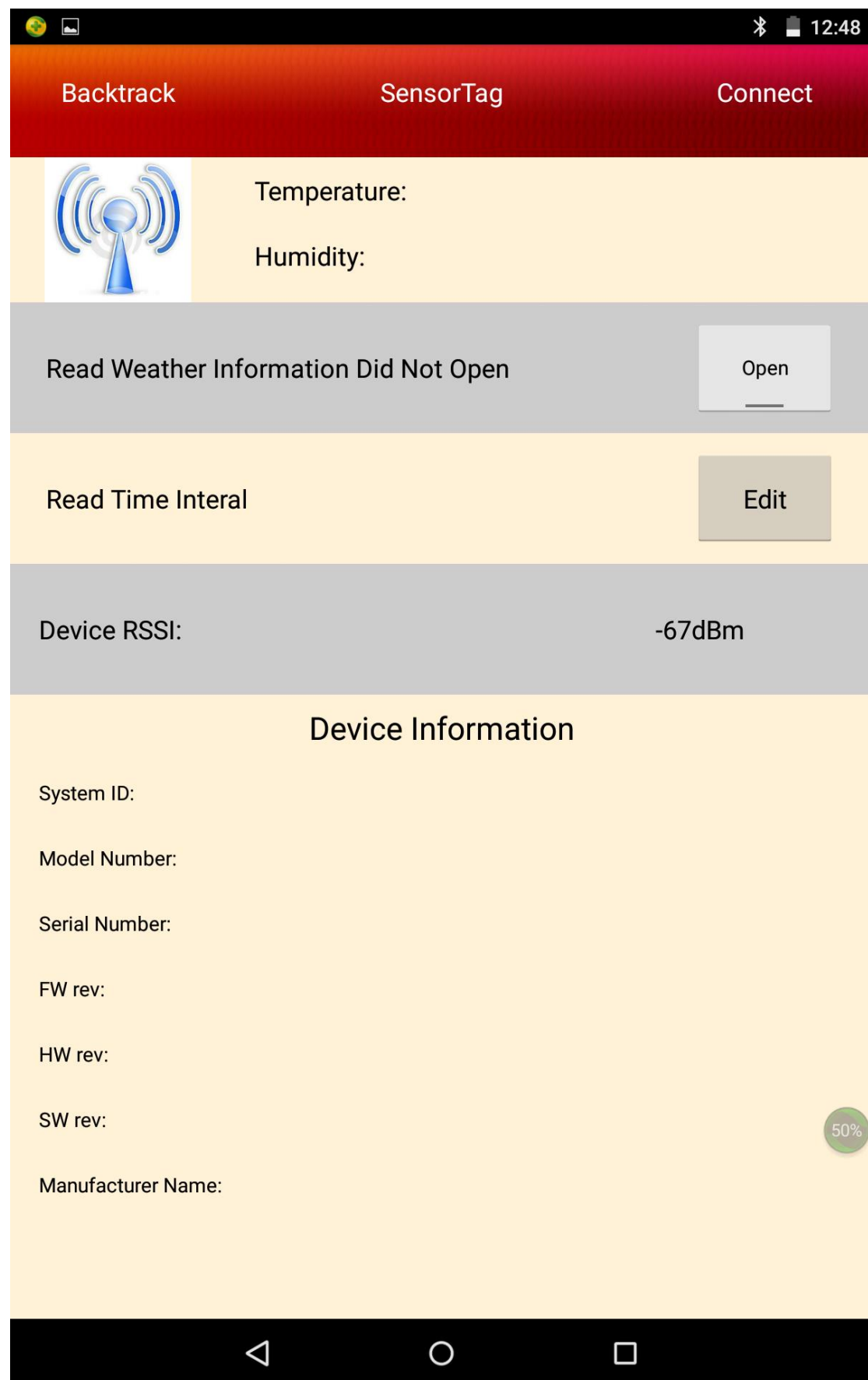
2.3 Applications

- ◆ Temperature & humidity tag
- ◆ Freezing transportation
- ◆ Smart farm
- ◆ Near field positioning

3、Using Method

1. Open Android APP, click "Search" to find beacon.

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Exit	Device Listing	Search

Name: HumiTemp Sensor
Mac: 5C:31:3E:5F:8B:51
Temperature: + 29.3
Humidity: 44.8
Device RSSI: -82dBm

49%

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2. After searched beacon, click "connect" to connect beacon with app.

Backtrack	SensorTag	Connect

Temperature:

Humidity:

Read Weather Information Did Not Open   Open

Read Time Interal   Edit

Device RSSI: -67dBm

Device Information

System ID:

Model Number:

Serial Number:

FW rev:

HW rev:

SW rev: 50%

Manufacturer Name:

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3. When connected, open "Read Weather Information".

Backtrack	HumiTemp Sensor	Disconnect

* 12:56

Temperature: +26.10

Humidity: 53.25

Read Weather Information Open | Shut

Read Time Interal 1.0s | Edit

Device RSSI: | -71dBm

Device Information

System ID:

Model Number: N.A.

Serial Number: N.A.

FW rev: 1.5 (Jun 19 2015)

HW rev: N.A.

SW rev: N.A.

48%

Manufacturer Name: Texas Instruments
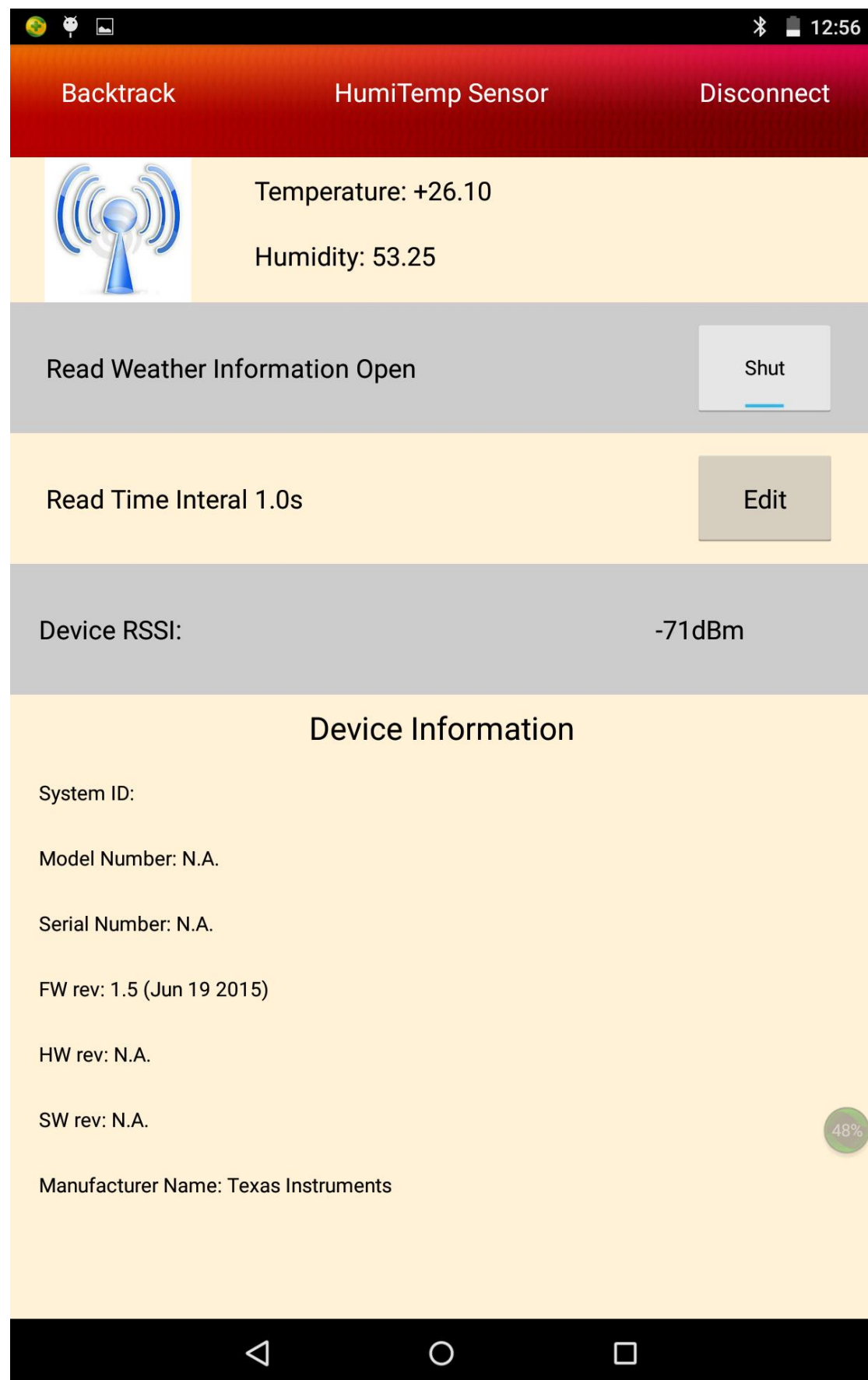
4. User can edit reading interval. Edit range is 300~2550ms.
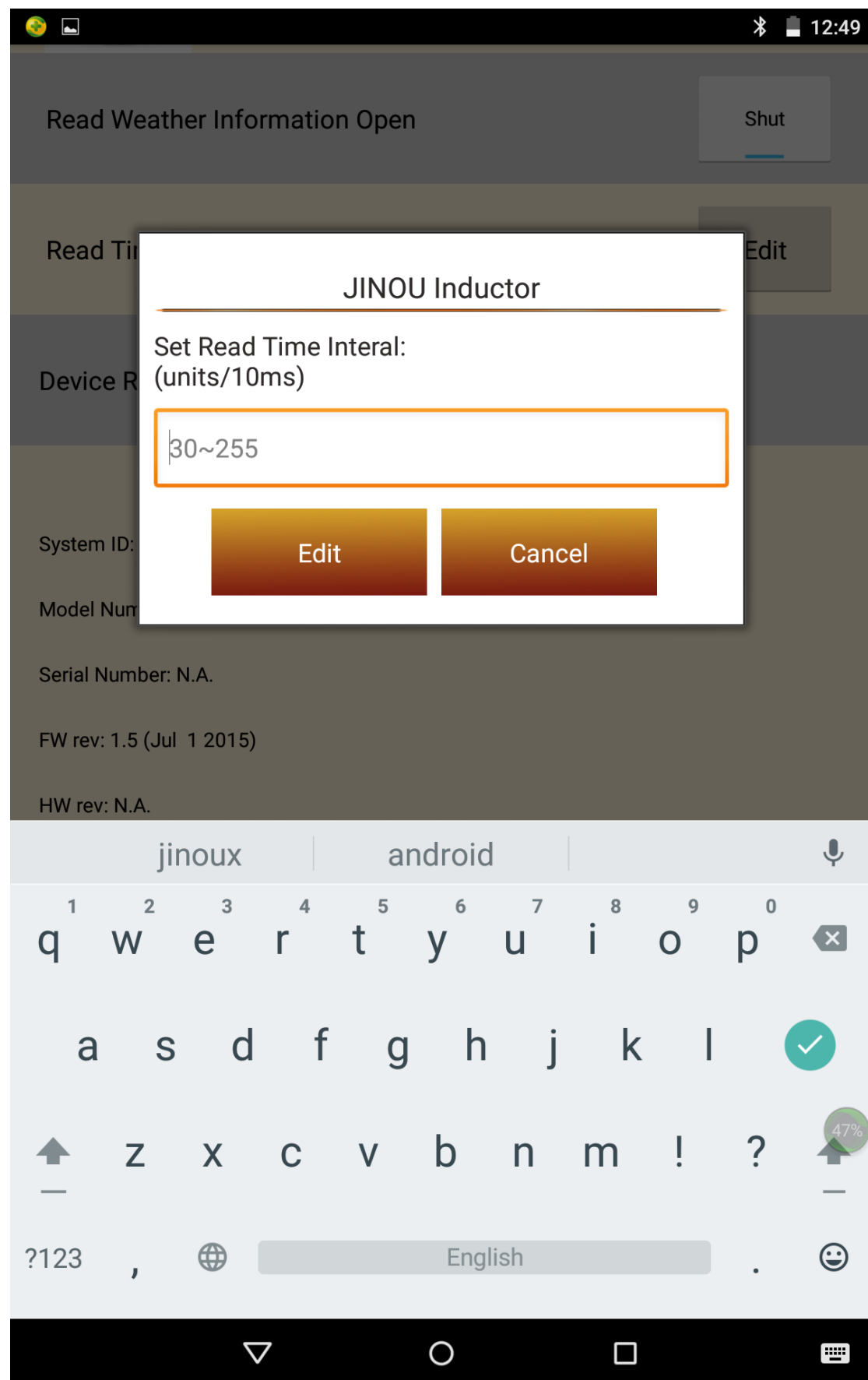
4、Contact Information

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