

# SCA11H

BCG\_WinDEMO GUI  
Quick Start Guide





- BSN Configuration
  1. Enter Configuration Mode
  2. Select BSN settings
    1. Set Wifi Country Code
    2. Set Measurement Direction & Running Mode
    3. Select Local Mode
    4. Connect to Wireless Network
  3. Complete Configuration
  
- Use of BSN in Local Mode
  1. Connect Laptop to the Wireless Network
  2. Start GUI
  3. Calibrate BSN & Log Data with GUI

# BSN CONFIGURATION

# Set BSN to Configuration Mode

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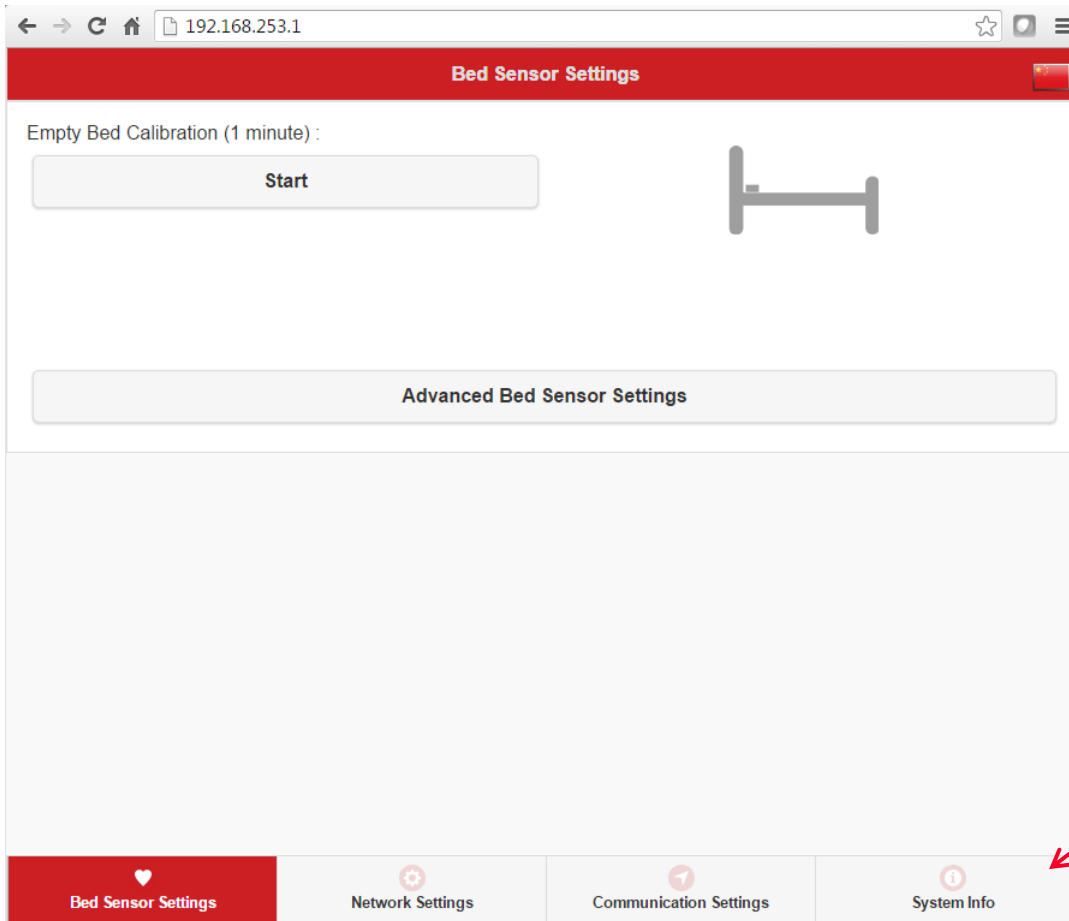
- Ensure that power is off
- Remove BSN from the magnetic plate
- Set power on
- Wait ~10 seconds
  - Power LED (green) starts to blink with 1s interval.
- Attach BSN to the magnetic plate
- Make sure BSN is attached correctly
  - Cover figure oriented similarly to users laying position
- BSN is now ready for configuration

# Enter BSN Configuration Page

- Connect laptop to BSN configuration network
  - SSID: muRata\_CFG\_XXXXXX
  - Password: **24681012**
- Open browser at: **http://192.168.253.1**

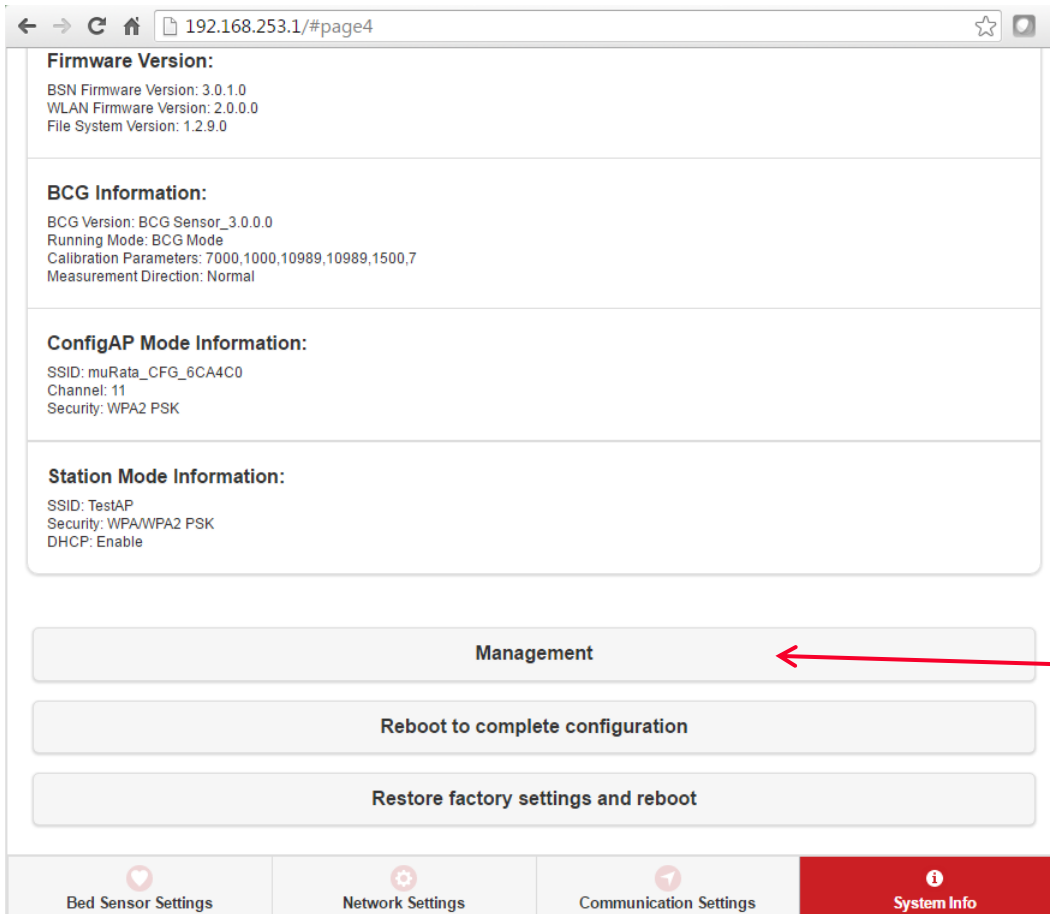


# Start-up Screen



1. Go to System Info

# System Info



The screenshot shows a web browser window with the address bar displaying "192.168.253.1/#page4". The page content is organized into several sections:

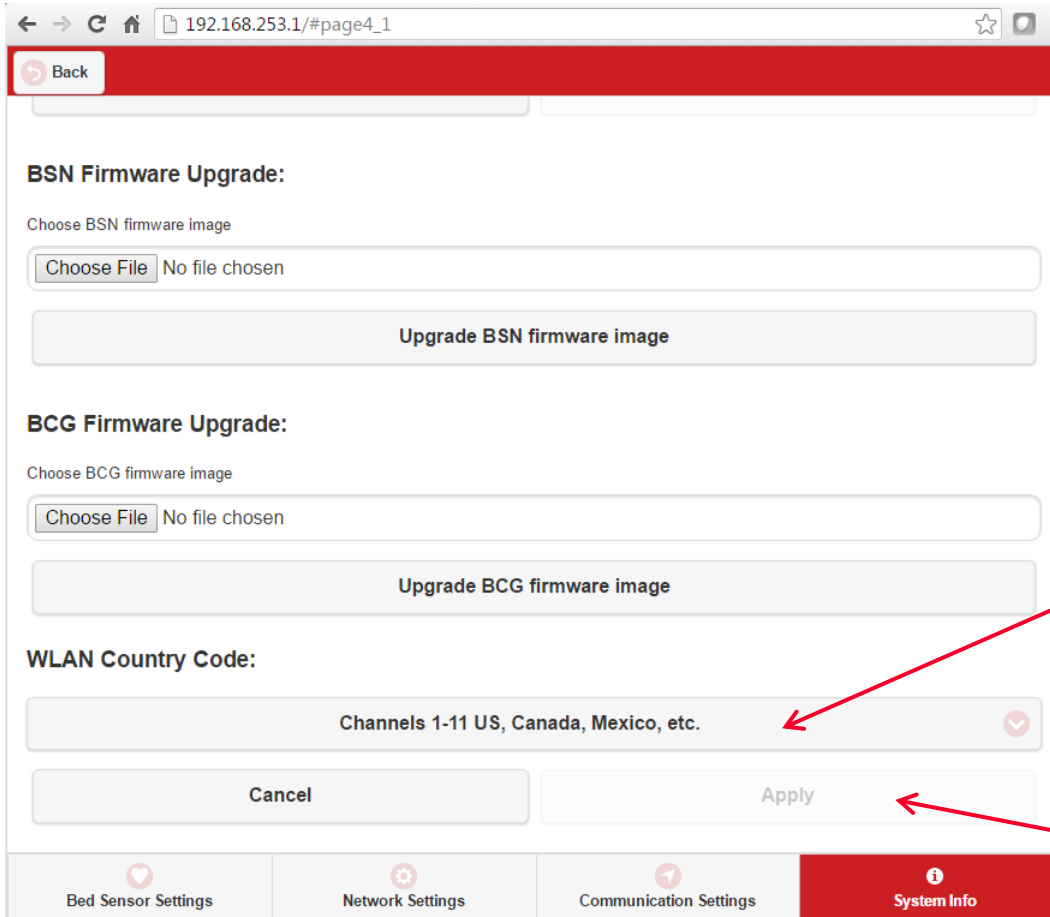
- Firmware Version:**
  - BSN Firmware Version: 3.0.1.0
  - WLAN Firmware Version: 2.0.0.0
  - File System Version: 1.2.9.0
- BCG Information:**
  - BCG Version: BCG Sensor\_3.0.0.0
  - Running Mode: BCG Mode
  - Calibration Parameters: 7000,1000,10989,10989,1500,7
  - Measurement Direction: Normal
- ConfigAP Mode Information:**
  - SSID: muRata\_CFG\_6CA4C0
  - Channel: 11
  - Security: WPA2 PSK
- Station Mode Information:**
  - SSID: TestAP
  - Security: WPA/WPA2 PSK
  - DHCP: Enable

Below the information sections are three buttons:

- Management** (highlighted with a red arrow)
- Reboot to complete configuration
- Restore factory settings and reboot

At the bottom, there is a navigation bar with four items: "Bed Sensor Settings", "Network Settings", "Communication Settings", and "System Info" (which is highlighted in red).

1. Go to Management

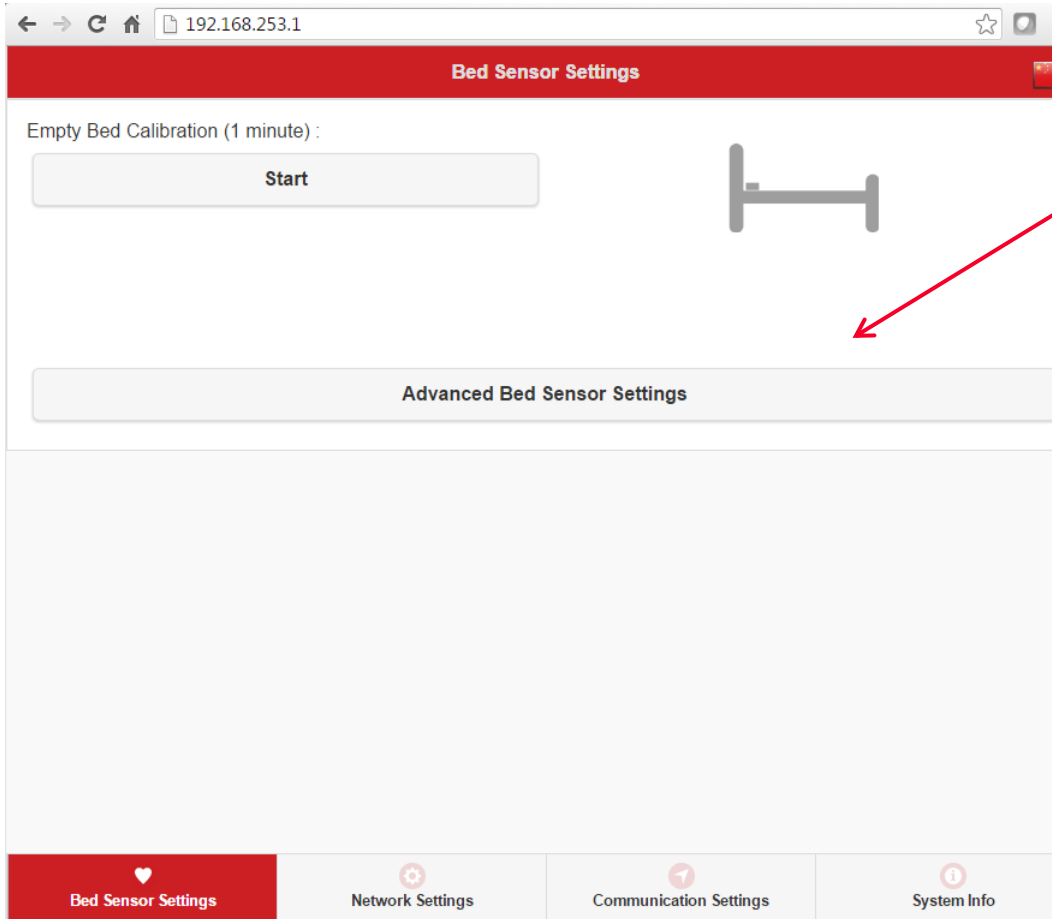


1. Select correct WLAN Country Code
  - Incorrect country code might cause device not to find wireless network or cause network disconnects
2. Press "Apply" to save any changes

3. Go to Bed Sensor Settings



# Start-up Screen



1. Go to "Advanced Bed Sensor Settings"

*BSN calibration can be started here or later with BCG\_WinDemo GUI.*

# Advanced Bed Sensor Settings

192.168.253.1/#page1\_1

Back

**BCG Running Mode:**

BCG Mode

**BCG Measurement Direction:**

Normal

**BCG Calibration Parameters:**

Restore Default Parameters

Signal High: 7000 Signal Low: 1000

Min Amplitude: 10989 Typ Amplitude: 1500

Scale: 7

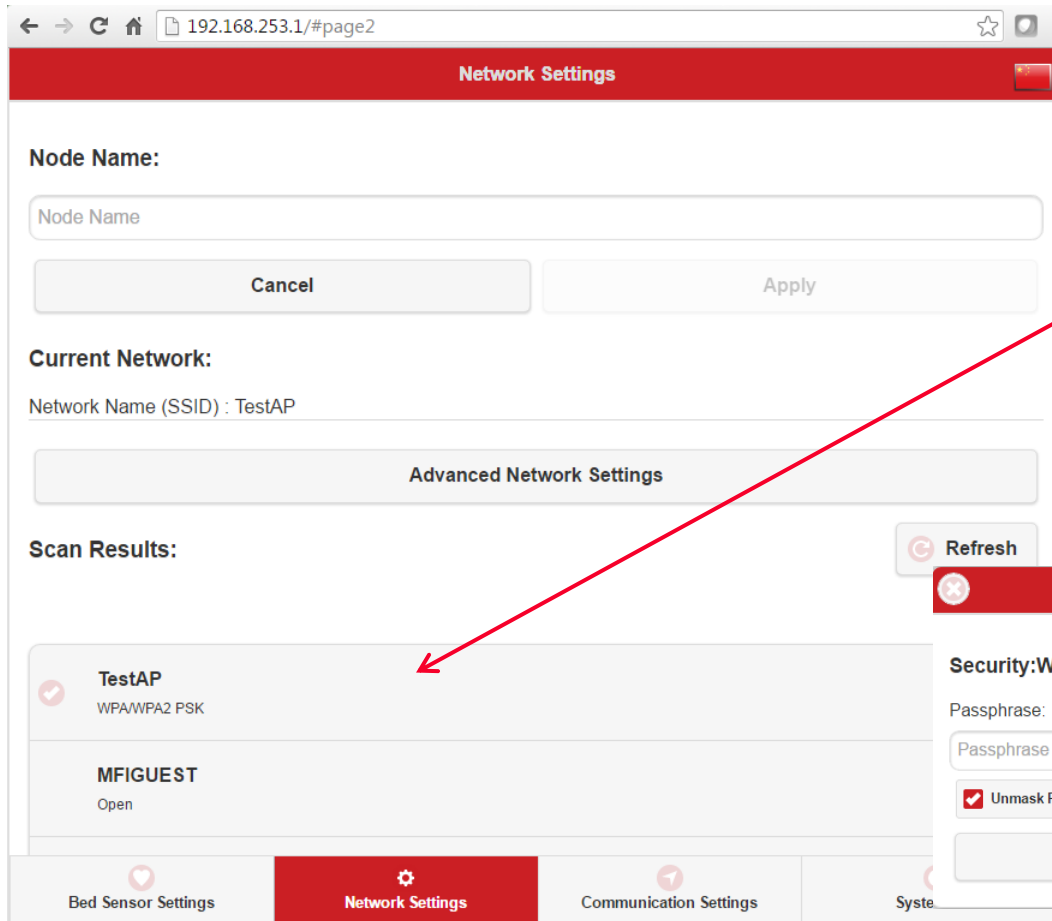
Cancel Apply

Bed Sensor Settings Network Settings Communication Settings System Info

1. Select "BCG mode"
  - algorithm data outputSelect "Data logger mode"
  - raw data output
2. Select "Normal" as measurement direction
3. Press "Apply" to save any changes.

*All of these can also be modified in the BCG\_WinDemo GUI*

# Network Settings

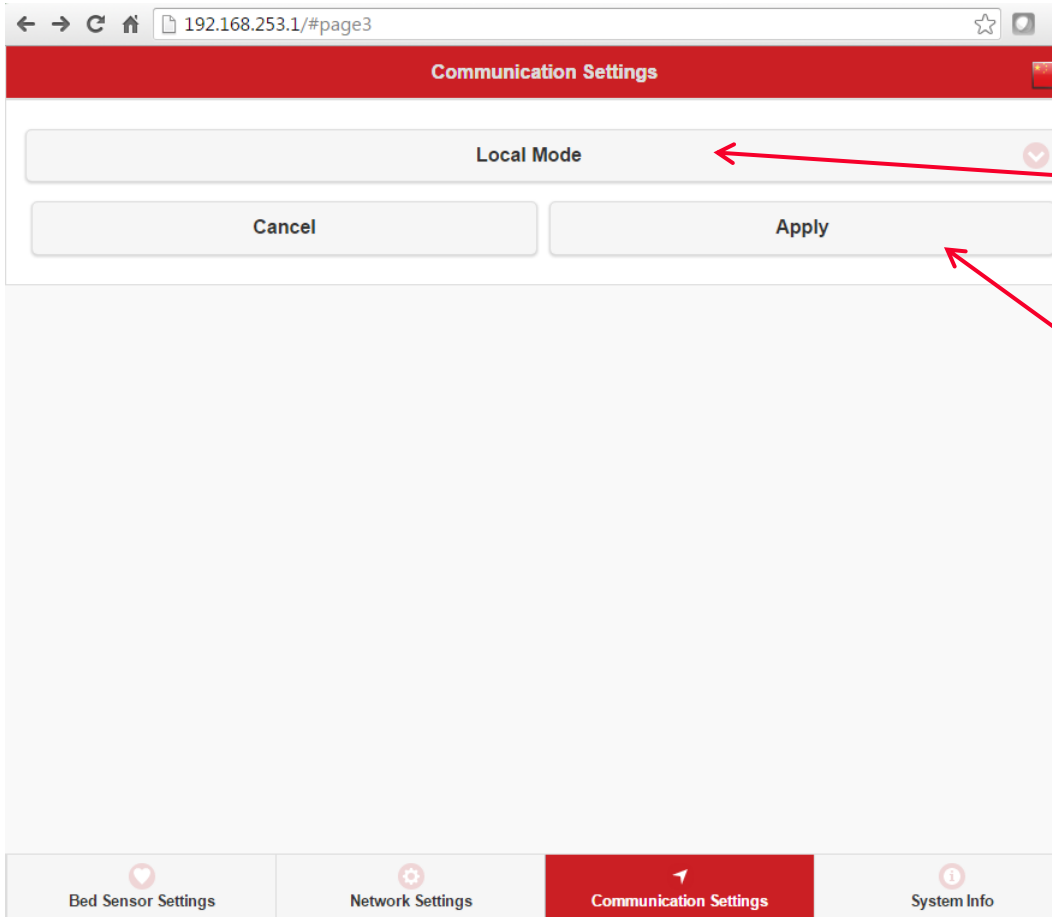


2. Select Wireless Network

3. Enter Network Password

1. Go to Network Settings

# Communication Settings

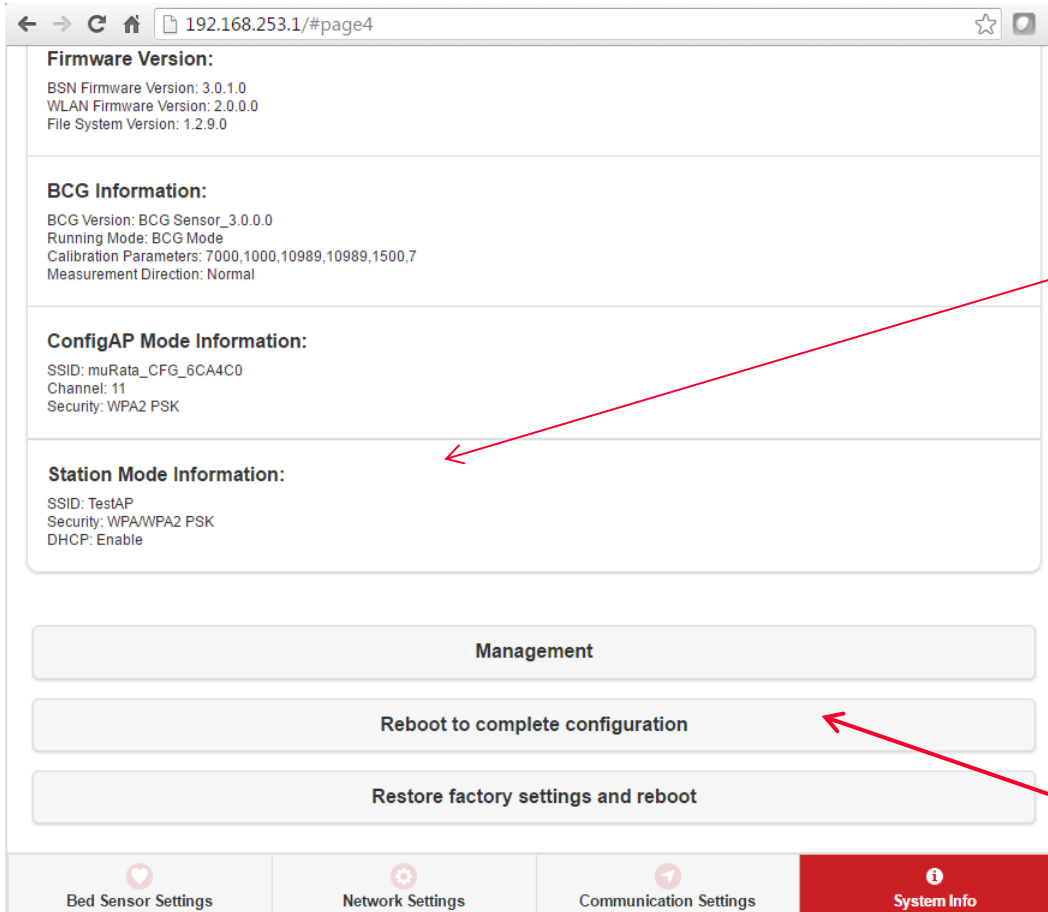


2. Select "Local Mode"

3. Press "Apply" if changes were made

1. Go to Communication Settings

# Complete Configuration



2. Check that the configured settings are correct
  - Station Mode Information shows selected SSID

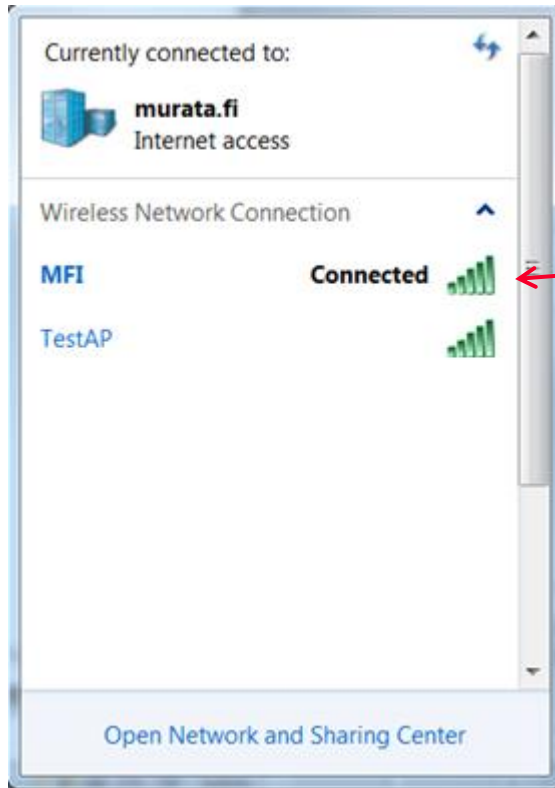
**Make sure magnetic plate is attached!**

3. Reboot to complete configuration

1. Go to System Info

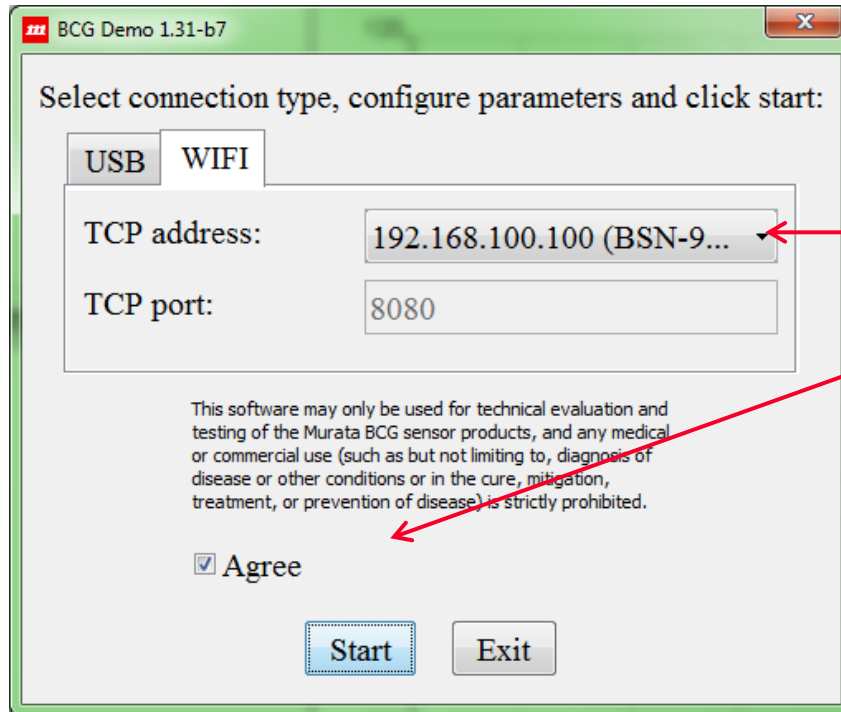
# BSN USAGE

# Connect Laptop to Wireless Network



1. Connect to the same network that BSN was configured to
2. Wait until fully connected!

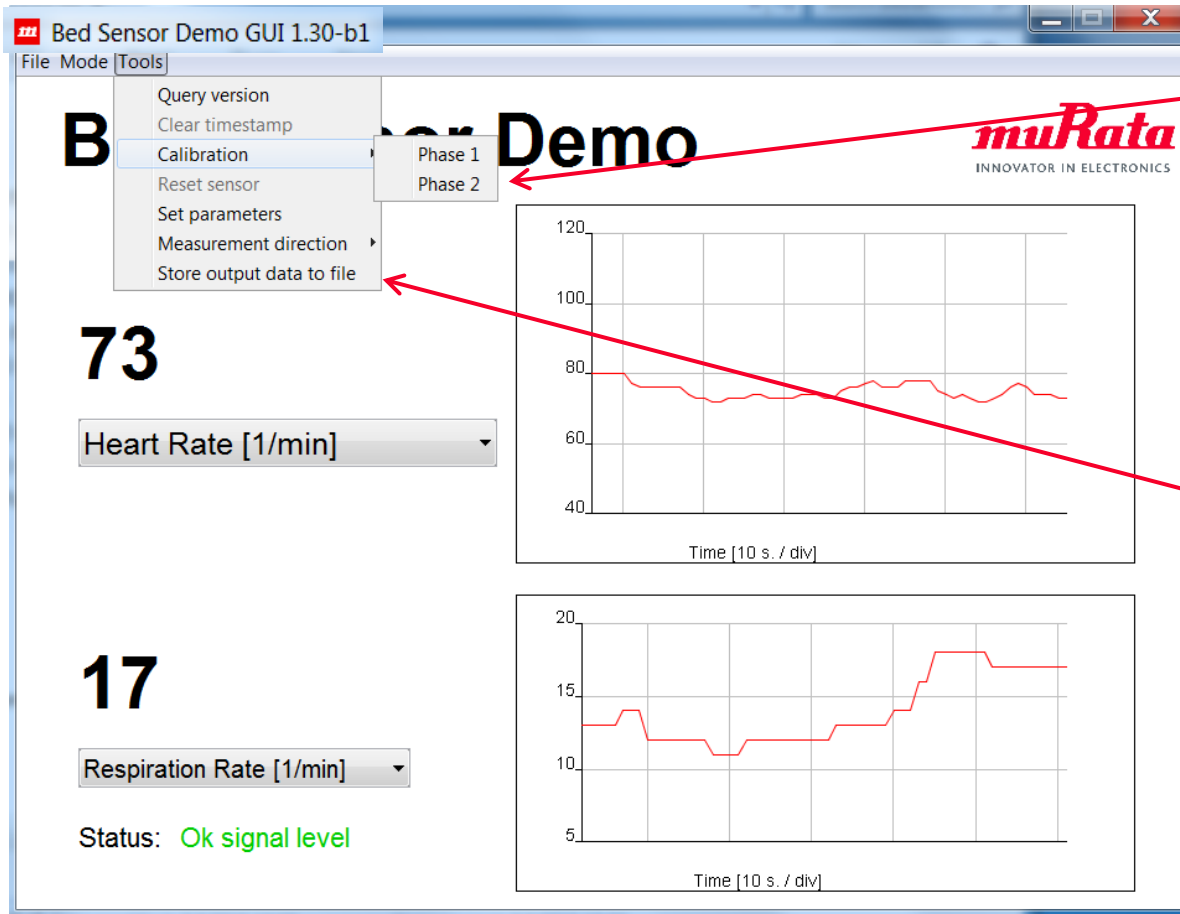
# Start the GUI



1. Start the GUI from BedSensorDemoGUI.bat
2. Select the correct sensor node
3. Agree to disclaimer and click start



# BSN Calibration with GUI



Calibrate in BCG mode:

- Phase 1: Empty bed calibration (1 min)
- Phase 2: Occupied bed calibration (1 min)

Log data to a text file