



AMS 3516 – App Description

GENERAL DESCRIPTION

The AMSYS AMS 3516 app is required for communication with the AMS 3516 pressure sensor. The app requires access to the location and the external device storage to save the measured values of the sensor in a * .csv file.

The Bluetooth of the mobile phone must be turned on otherwise appears a short info message at the bottom of the display with the request to turn on the Bluetooth.

By clicking on the AMS 3516 app, the main page is displayed first and it starts scanning for the corresponding sensor. At the bottom of the display appears a short info message about the status of the app like scanning or scanning stopped.

The app receives the measured sensor values via advertising. These are displayed in real time at the top of the display with the name of the sensor. In the main window below, the measured values for pressure and temperature are also displayed in separate graphs over time.

The timeline is given in hours: minutes: seconds.

To the left of the readings is the menu button (☰) (Figure 1).

By clicking on the menu button or swiping right on the display, the various options of the main page are displayed. (Figure 2).

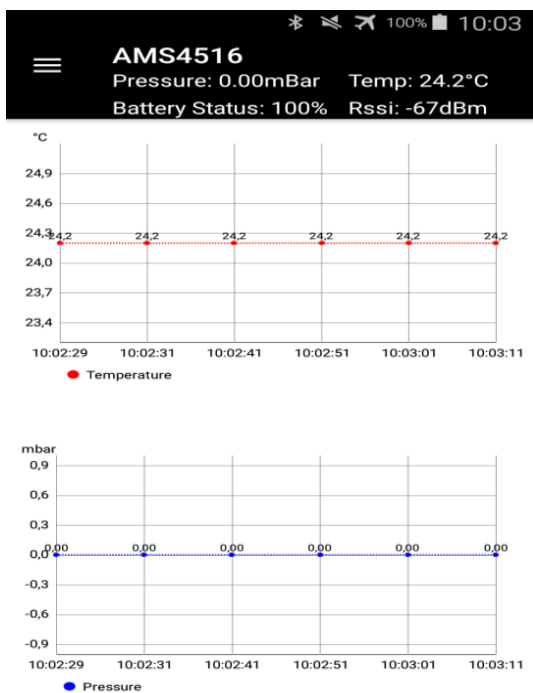


Figure 1: Main page

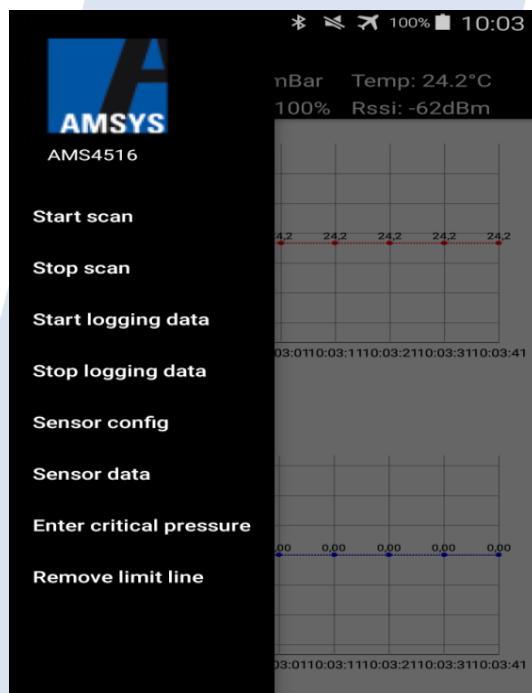


Figure 2: Main page after clicking on the menu button



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Description of the menu options in the main page

- 1) Start scan: Starts scanning for Bluetooth devices
- 2) Stop scan: Stops scanning for Bluetooth devices
- 3) Start logging data: The App creates a new directory named "AMS 3516 Sensor Data" in the device storage of the mobile phone. In the directory the measured values for pressure and temperature are stored in a *.csv file. The first column shows the date and time, for the recorded values by the app. In the 2nd and 3rd column are the pressure and temperature values stored.
- 4) Stop logging data: Stops the logging for the measured values.
- 5) Sensor config: The sensor establishes a Bluetooth connection and opens the "Configure" page. Here are the various options made for customization of the sensor.
- 6) Sensor data: The sensor establishes a Bluetooth connection and opens the "Measurement data" page. Here you can read out the current measured value or those saved in the EEPROM. There are two options to choose from:
 1. By activating the checkbox the EEPROM data will be saved in a new directory "AMS 3516 EEPROM Data" as *.csv file in the device storage of the mobile phone. First, a number of the desired number of data must be specified in the edit text field. This number can not be greater than 255 because this is the maximum number of bytes that the EEPROM can store. By clicking on the button below, the desired number of data will be sent to the app via Bluetooth Notifications
 2. If the checkbox has not been activated, the data from the EEPROM will be displayed in two separate graphs as on the main page.

To capture the sensor's real-time data, first click on the menu button in the upper right corner and then "Enable Notification". The sensor now sends the current measured value for the pressure and the temperature every 5 seconds (default setting). The data will then be displayed and updated at the top of the display. To stop sending, press "Disable Notification" in the menu. At the bottom of the display appears a short info message about the status such as:
„Logging enabled, Logging stopped, Notification enabled ... etc.“ (Figure 4)



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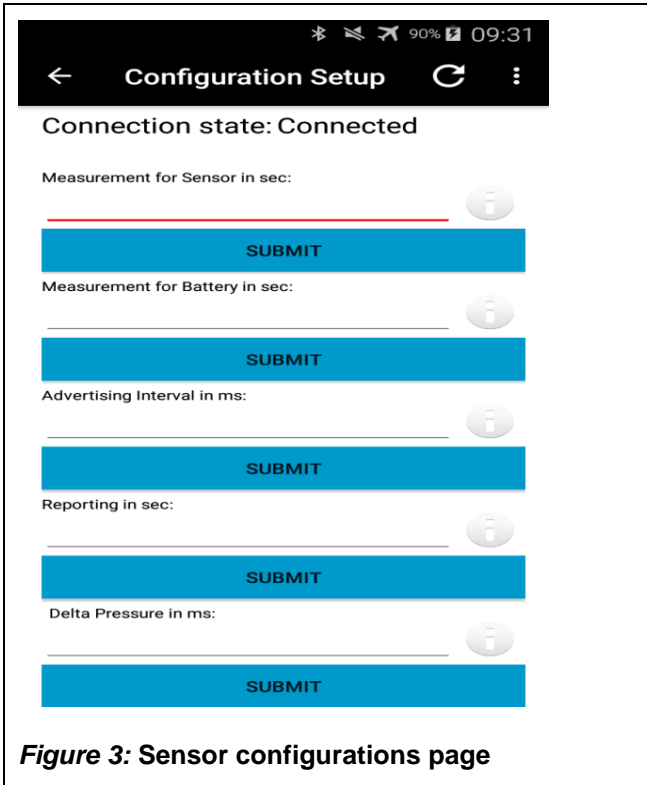


Figure 3: Sensor configurations page

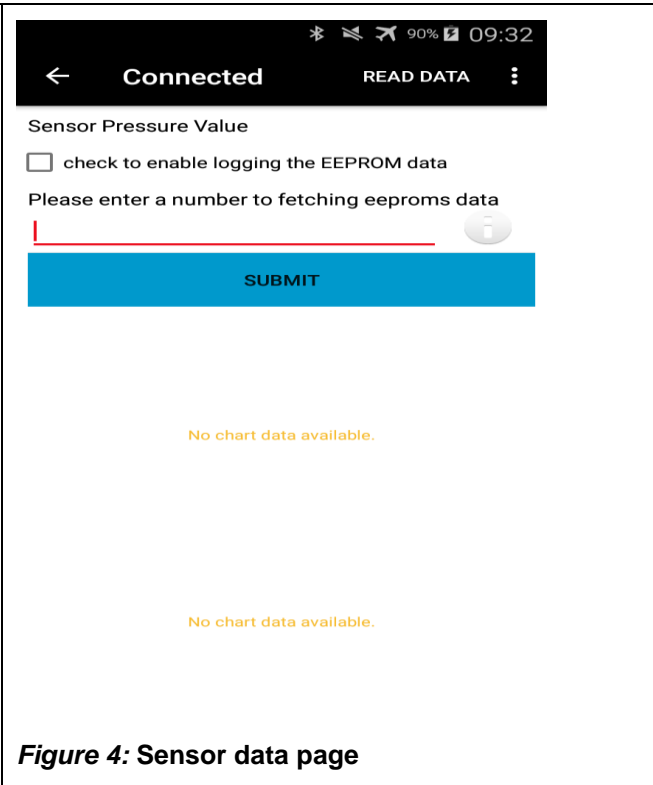


Figure 4: Sensor data page

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