

Meteostation using Bluetooth Low Energy

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Abstract

This bachelor's thesis describes implementation of weather monitoring station, which is able to send historical measurements via Bluetooth Low Energy (BLE). Application is implemented for SoC EM9304 with EEPROM memory and temperature, pressure and humidity sensor connected over serial interface.

Result of this thesis is working device, which communicates with smartphone using dedicated client application, where user sends commands and receive visualized data. The thesis also contains results of power consumption measurements in various phases of activity.