

Setting up the Raspberry Pi based field sensor monitor
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1 Introduction

This document describes how to set up and use the field monitoring system based on a Raspberry Pi base station and Moteino/Arduino based loggers. It provides a description of the hardware used and how to set up specific parameters in software, such as logging frequency.

2 Description of hardware

2.1 Base station (Raspberry Pi)

2.2 Logger (Moteino)

3 Using the software

3.1 Base station (Raspberry Pi)

3.2 Logger (Moteino)

3.2.1 Radio parameters

NODEID

NETWORKID

GATEWAYID

FREQUENCY

ENCRYPTKEY

ENABLE_ATC

3.2.2 Logging parameters

NUM_PHOTODIODES