

Lab 6

*School of Architecture, Civil and
Environmental Engineering*

EPFL, WS 2025-2026

http://disal.epfl.ch/teaching/signals_instruments_systems/

What you will learn today

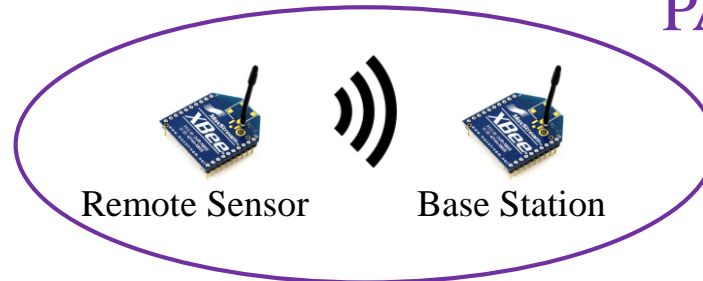
- Control of a remote sensor
- Interrupts
- Energy-aware communication

This lab uses a lot of concepts from Lab 5. If you do not remember how to use the Arduino boards, go back to lab 5 for a refresher.

Control of a remote sensor

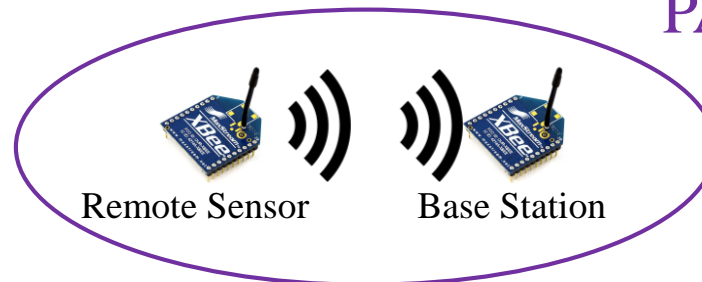
- In Lab 5: Remote node gets data, sends it to base station, which sends to the PC.

PAN ID: Y



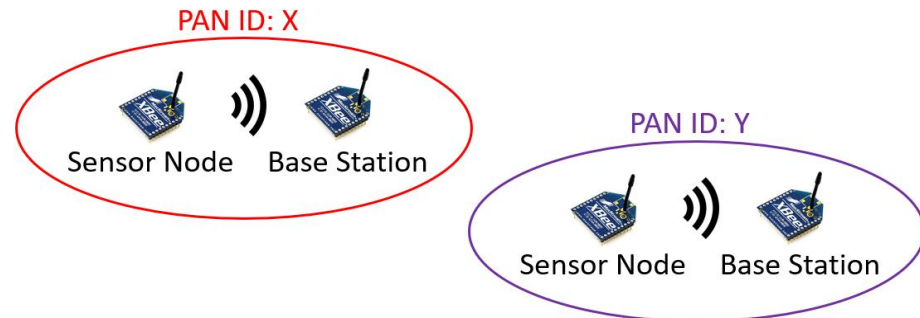
- In Lab 6: Base station requests different types of data from remote sensor

PAN ID: Y



Reminder

- In part 1, set the same PAN ID in the transmitter and in the receiver to create a network (**use the number of your computer as PAN ID**)



At the end of the lab

- Upload the code in the folder *maintenance* on both boards
- Ensure that the battery switch is off

Please fill in the feedback form for Lab 6!

Thank you!