Flowchart B
Main module

The flow chart showing the steps the main module takes to receive te data from the measurement module, stores it temporairly and sends it to the server.

START

Wait:
00:01:00

Try making a connection with the internet through LAN

Connection?   No   Try <= 10   No

Yes   Yes

Scan for the measurement modules

ERROR 1:
Check the internet connection, no communication with main module

Blink red led

No   00:10:00 after action

Yes

X = X + 1

connect to sensor X   Yes

Try <= 3   No

Connected   No

Yes

X = 0   X = X + 1

Send Message:
"Request Data"

Send Message:
"Terminate"

Wait for message   Try <= 3   No

Yes

Yes   All sensors   No

message

"NACK"

""Message, 1"

"Message, X"

A

Send Message:
"ACK"

Send Message:
"ACK"

Send Message
"Terminate"

Close Connection

Send Message
"Terminate"

Send Message
"NACK"

Wait for
message

Wait for
message

Send Message
"NACK"

Store data on the
server

C

Save Data

No

Yes

No

Try <= 3

No

Data OK?

Data OK?

No

Try <= 3

No

Yes

Yes

Yes

All data
received

No

Send Message
"END"

Yes

Send Message
"END"