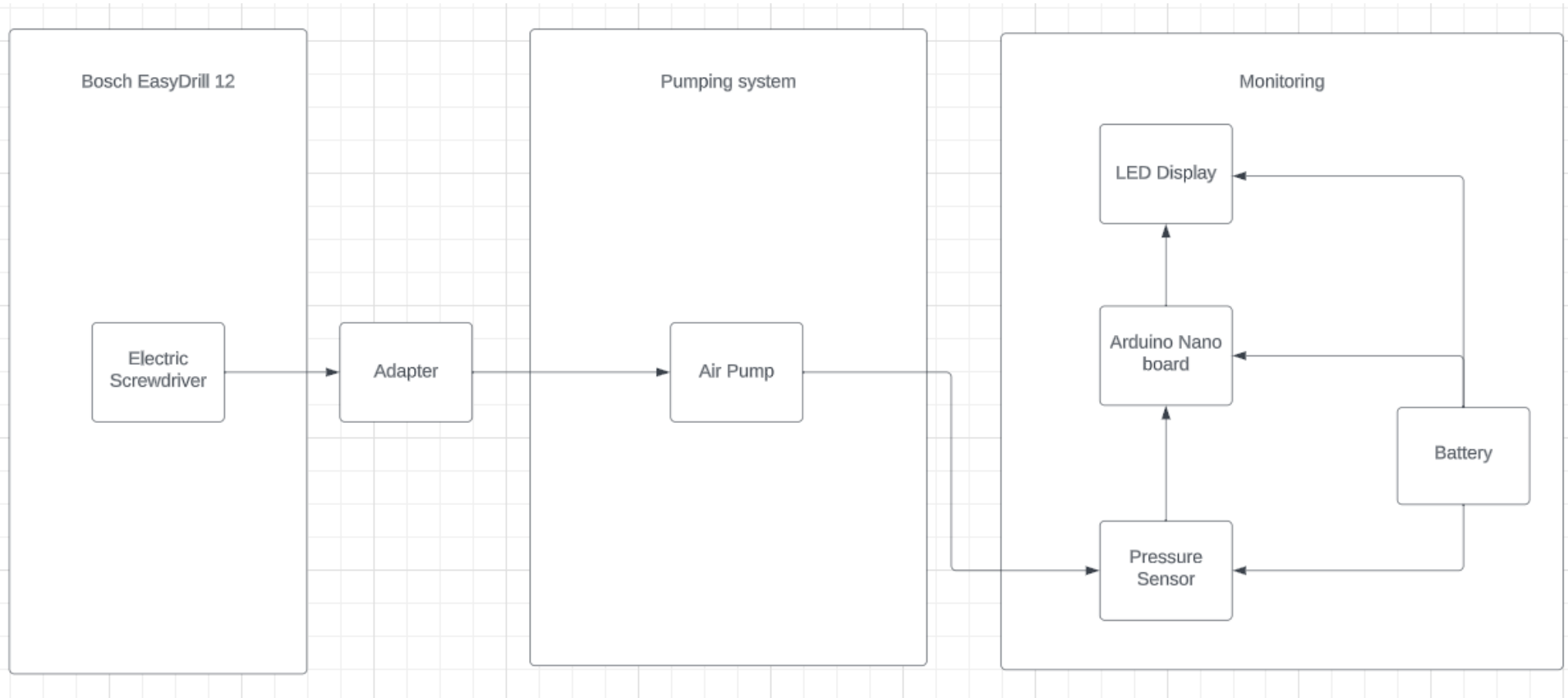


**BOSCH** 

**PumpUp Module**



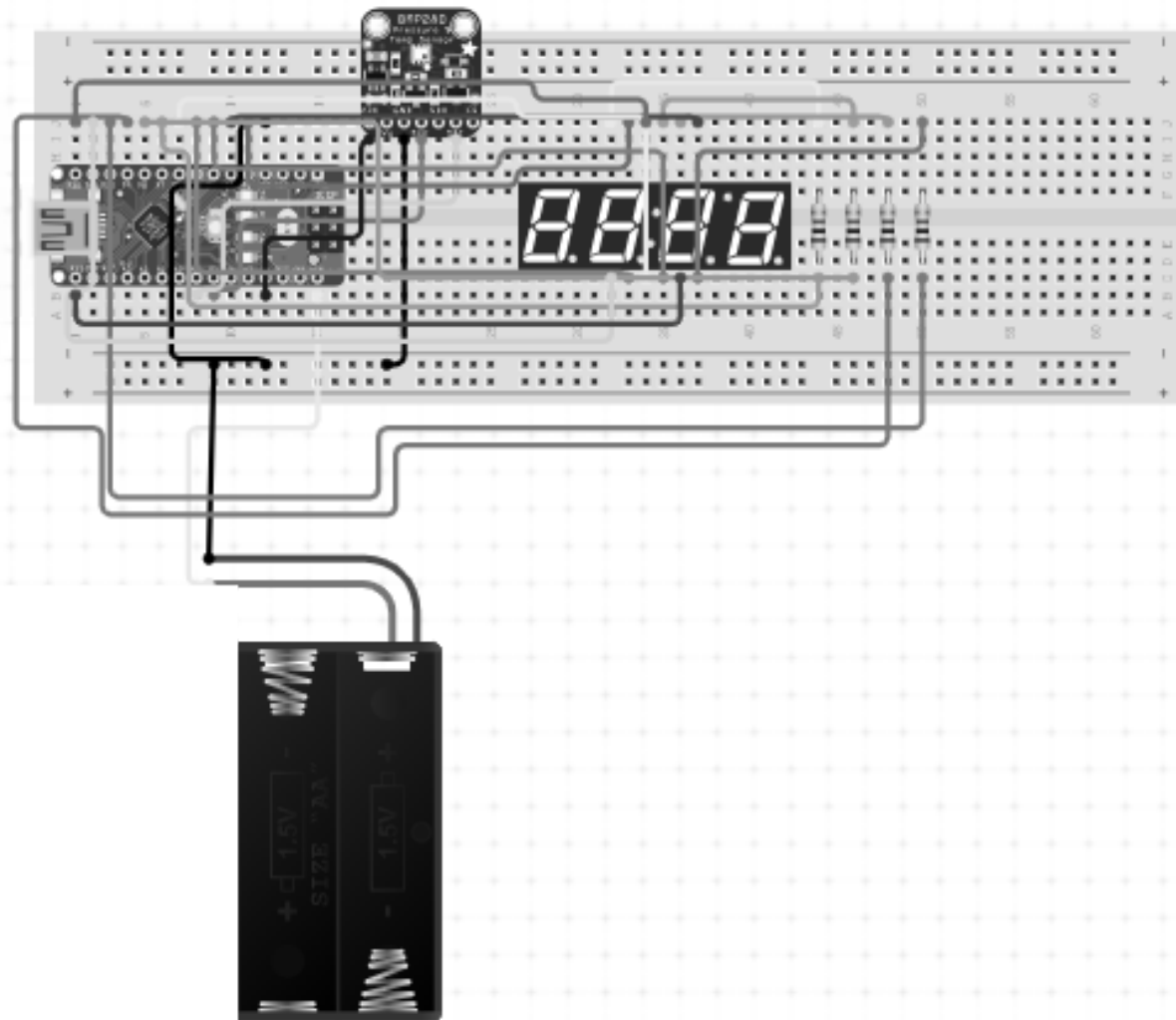
## Module Block Diagram



## Bill of Materials

	Prototype Price (in Euro)	Production Price (in Euro)
Pressure Sensor	1.5	1.5
Arduino Nano	21	0.94
Housing	8	3
Valves	6	6
Tube	5	2.84
2 Gears	0.5	1
Piston	5	7.72
Display	2	2
<b>Total</b>	49	25

## Schematic sheet

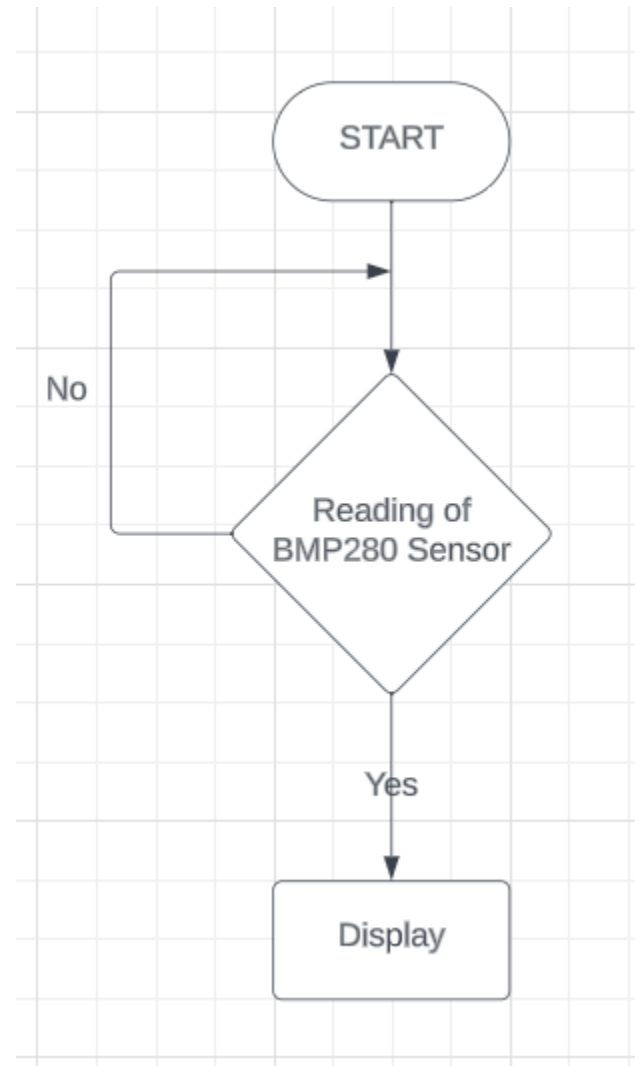


## **Working principle**

The module converts the rotational motion generated by the screwdriver to drive a reciprocating valve air pump.

The sensor is used to monitor the Air Pressure to the user to ensure the appropriate pressure needed.

## Firmware Block Diagram



**Firmware Code** (Firmware code is located in a separate file in the github repo)

**Business Model Description** (You can find the business model attached with the files)