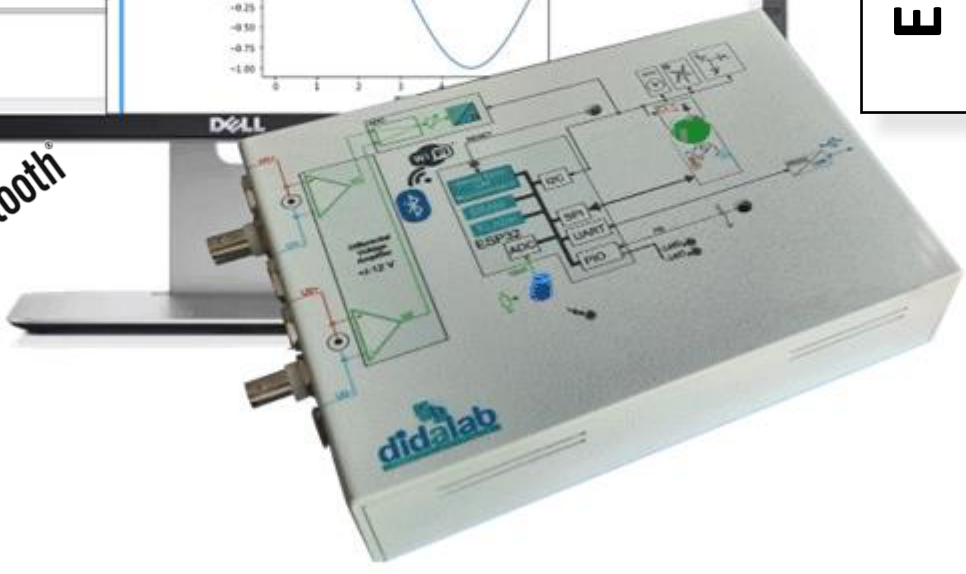


**EMA 430 B**



## Highlights

- Highly ergonomic, very quick to use, user-friendly and intuitive
- Real-time acquisition of physical quantities
- Integrated sensors
- Python programming
- Compatible with certain experiments

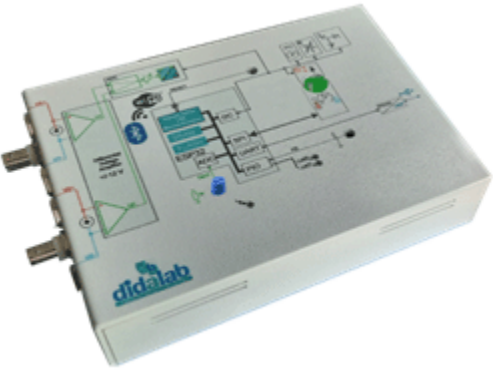
## Studied topics








- Python programming
- Post processing
- Study of sensors

## Trainings

- Highschools
- Colleges of Technology
- Universities

# Embedded sensors

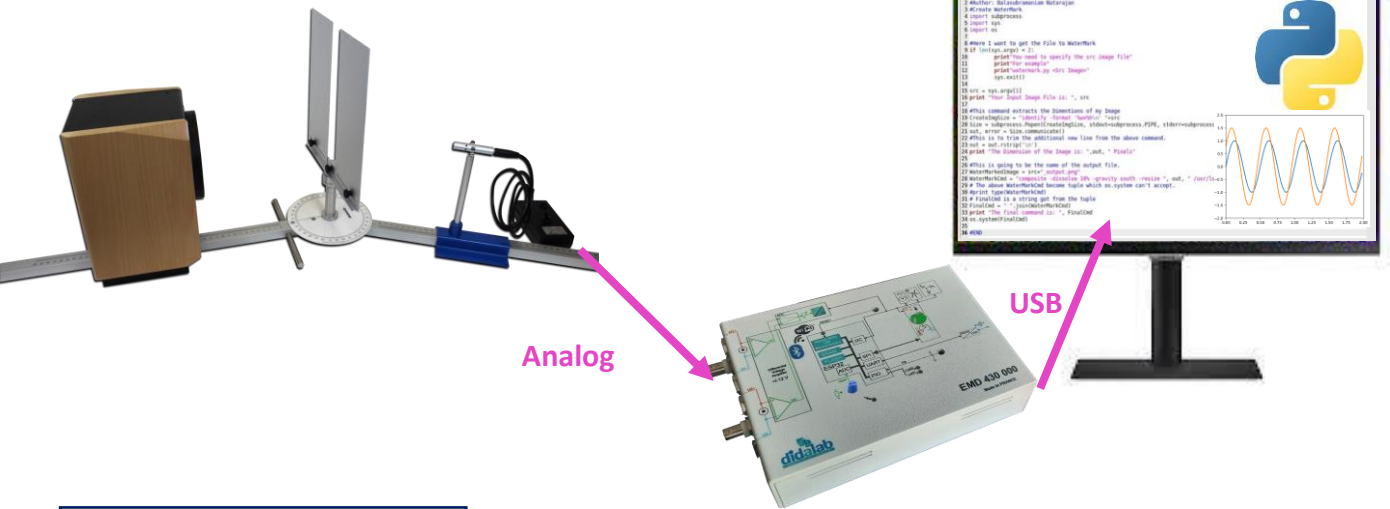


-  Hygrometry
-  Pressure
-  Temperature
-  Luminosity
-  Linear acceleration
-  Magnetic field
-  2 analog Inputs, +/- 10V

## Example with sound waves experiments

Purpose of the experiment:

- Acquire analogue information from sound waves
- Create a Python program to demonstrate the phenomena of diffraction and/or interference
- Post-process the information



### Standard Configurations

- EMA430B** Data Processing Interface with Python, In.T.A.Py
- EMA430000** Module , including 1 ESP32 with 32 Mbit Flash,1 UART, 2 SPI, 2 I2C, 1 WIFI, 1 Bluetooth, 2 ADC Inputs. It includes 1 potentiometer, 2 LEDs, 1 temperature sensor, 1 humidity and pressure sensor, 1 luminosity sensor, 1 accelerometer, 1 3-axis gyroscope
- EMA430100** Configuration software "MQTT Sensors"
- EGD000026** USB lead, AA kind
- EGD000001** 9 VAC Power supply, 2 A
- Optional extra (not included):*
- EID431000** Programming and data acquisition Unit