

# IoT-Labs: Available Resources

## -. LoRa Devices

Device	Platform	Board	Technology	Links
<a href="#">Dragino shields</a>	Arduino IDE	Arduino shields	LoRa - LoRaWAN	<a href="#">Short tutorial</a>
LoRaBee Microchip RN2483	Arduino IDE	<a href="#">Autonomo</a>	LoRaWAN	<a href="#">Short tutorial</a>
<a href="#">LoPy</a> from Pycom	Micropython	Expansion Board - <a href="#">Pysense</a> - <a href="#">Pytrack</a>	LoRa - LoRaWAN - WiFi - BLE	<a href="#">Short tutorial</a>
LoRa/GPS Hat	C++	Raspberry Pi	LoRa - LoRaWAN	<a href="#">Short tutorial</a>
<a href="#">TTGO LoRa32</a>	Arduino IDE	ESP32	LoRa - LoRaWAN - WiFi - BLE	<a href="#">Example scripts</a>
<a href="#">TTGO T-Beam</a>	Arduino IDE	ESP32	LoRa - LoRaWAN - WiFi - BLE - GPS	<a href="#">Example scripts</a>

## -. Sensors

### Multi-sensors Kit

JoyStick - Flame Sensor - RGB LED - Heartbeat Sensor - Light Cup - Hall Magnetic Sensor - Relay - Linear Hall Sensor - SMD RGB - 7 Color Flash - Tilt Switch - Temperature Sensor - Big Sound Sensor - Touch Sensor - Two-Color LED - Laser Emitter - Ball Switch - Analog Temperature Sensor - Small Sound Sensor - Digital Temperature Sensor - Two-Color LED (small) - Button - Photoresistor - IR Emission - Tracking Sensor - Buzzer - Reed Switch - Shock Sensor - Temperature And Humidity Sensor - IR Receiver - Avoidance Sensor - Passive Buzzer - Mini Reed - Rotary Encoders - Analog Hall Sensor - Tap Module - Light Blocking

- <https://www.instructables.com/id/Arduino-37-in-1-Sensors-Kit-Explained/>
- [https://tkkrlab.nl/wiki/Arduino\\_KY-039\\_Detect\\_the\\_heartbeat\\_module](https://tkkrlab.nl/wiki/Arduino_KY-039_Detect_the_heartbeat_module)

### Gas Sensor Kit

MQ-2 MQ-3 MQ-4 MQ-5 MQ-6 MQ-7 MQ-8 MQ-9 MQ-135

- <https://playground.arduino.cc/Main/MQGasSensors>

### Other Sensors

- Moisture
- Pysense board for LoPy (Ambient light - Barometric pressure - Humidity - 3 axis 12-bit accelerometer - Temperature)
- Pytrack board for LoPy (GPS - 3 axis 12-bit accelerometer)
- Temperature sensor (DSB18b20)
- Light sensor
- PIR sensor

- Ultrasonic sensor
- MAX6675 (Cold-Junction-Compensated K-Thermocouple- to-Digital Converter)
- Infrared sensor e18-d80nk
- Ph meter
- Keypad + LCD

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