



# Arduino sensors

Range of possible values

**AURIGA**  
the banking e-evolution

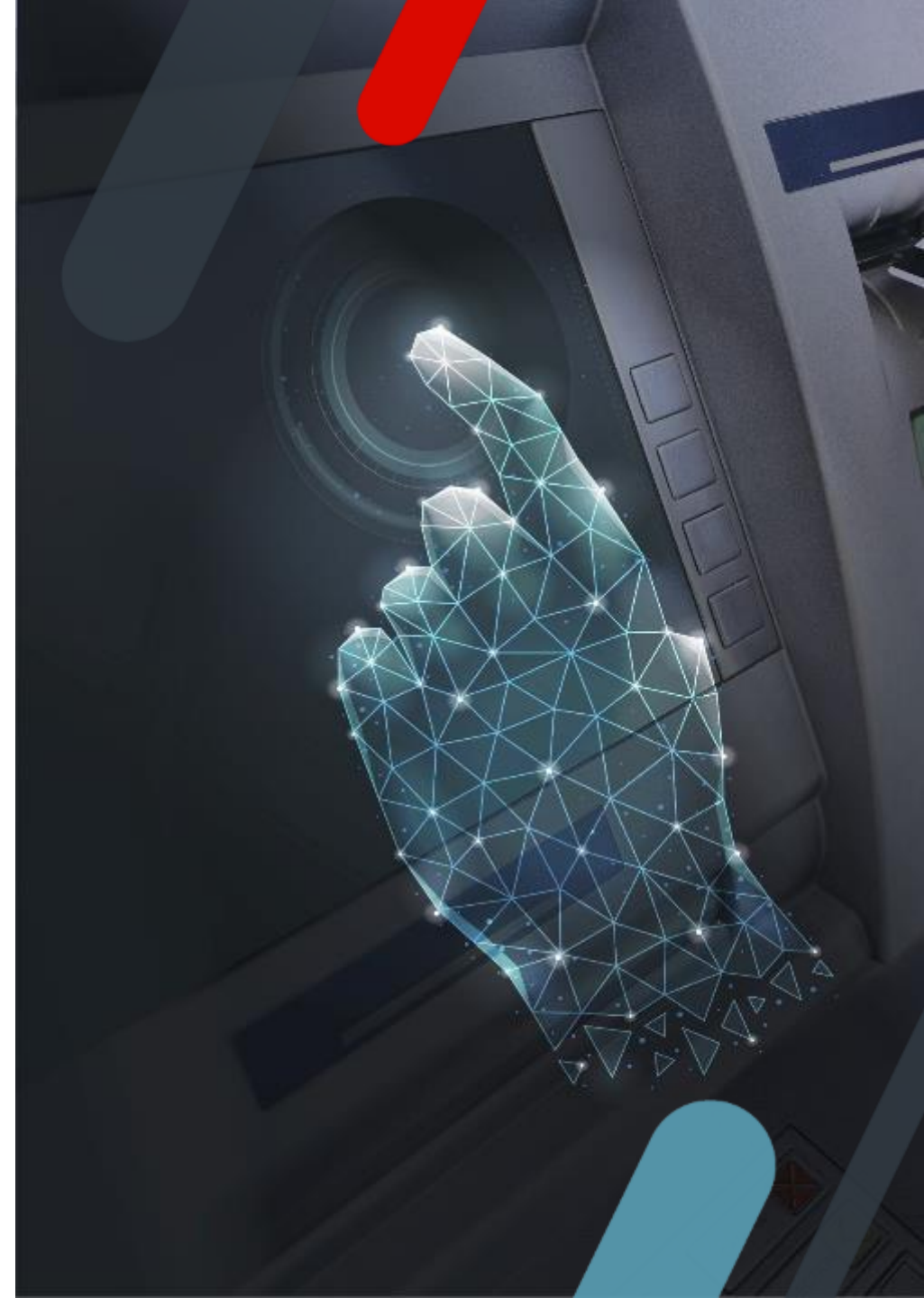
THE **#NEXTGENBANK**



[www.aurigaspa.com](http://www.aurigaspa.com)

## Scenario 1 - Jackpotting

- Temperature + brightness → switch off
- Noise + brightness → switch off
- Temperature + Motion → switch off
- Noise + Motion → switch off
- Jammer → switch off (**offline** rule)





# Temperature sensor

Values generated:

(temp, humidity)

25.00, 68.00

Temp → Celsius

Humidity → 20-90%



# Brightness sensor

Values generated:

From light (0) to dark (1023)



# Microphone sensor

Values generated:

From complete silence (0) to space shuttle departure (1023)

A median value of 500 is a great trade-off



# Linear Hall sensor

Values generated ranges from 0 to 1023

Median value (~500) indicates that magnetic field is stable

All values less than 400 and greater than 600 indicates some anomalies



# Motion sensor

Digital value (LOW or HIGH).

If a motion is detected we send 'Motion detected!' message.



# Gps sensor

Coordinates (x,y)

Example uniba: 41.1119908,16.8750942





# Gyroscope sensor

3 axes for gyroscope

3 axes for accelerometer

They are all integer values from about -35000 to 35000

## Scenario 2 - Physical attack

- Gps tracking → start sending gps data  
Note: This means that atm is outside the bank
- Gyroscope + accelerometer → start sending gps data

