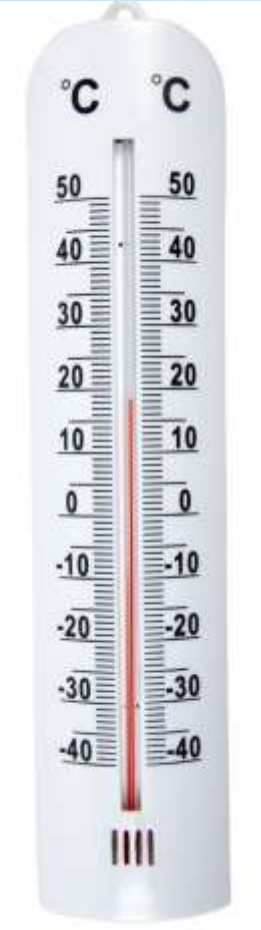
The information processing systems (part 1 of 2)

The information processing systems

A basic information processing system …

… the mercury thermometer



Input information : outdoor temperature (physical parameter)

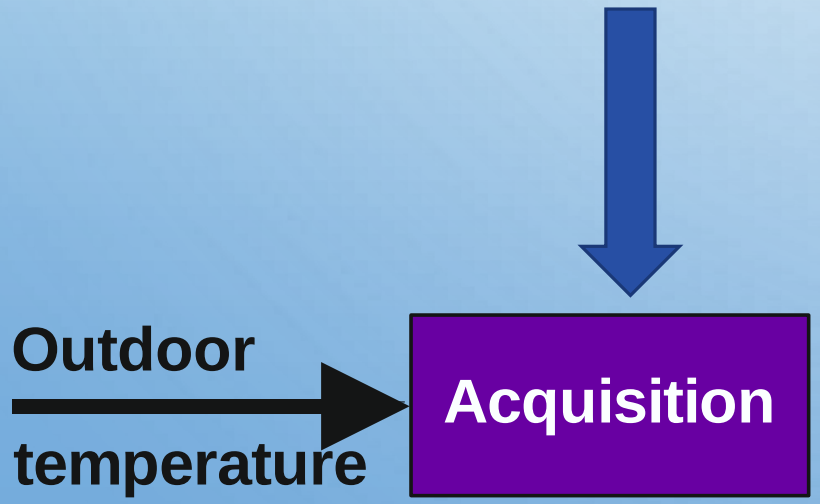
Output information : displayed value of the temperature (in °C)

The information processing systems

From the mercury thermometer of yesteryear … to the digital thermometer

→ The contribution of electronics technology :

- **a temperature sensor included in the thermometer**

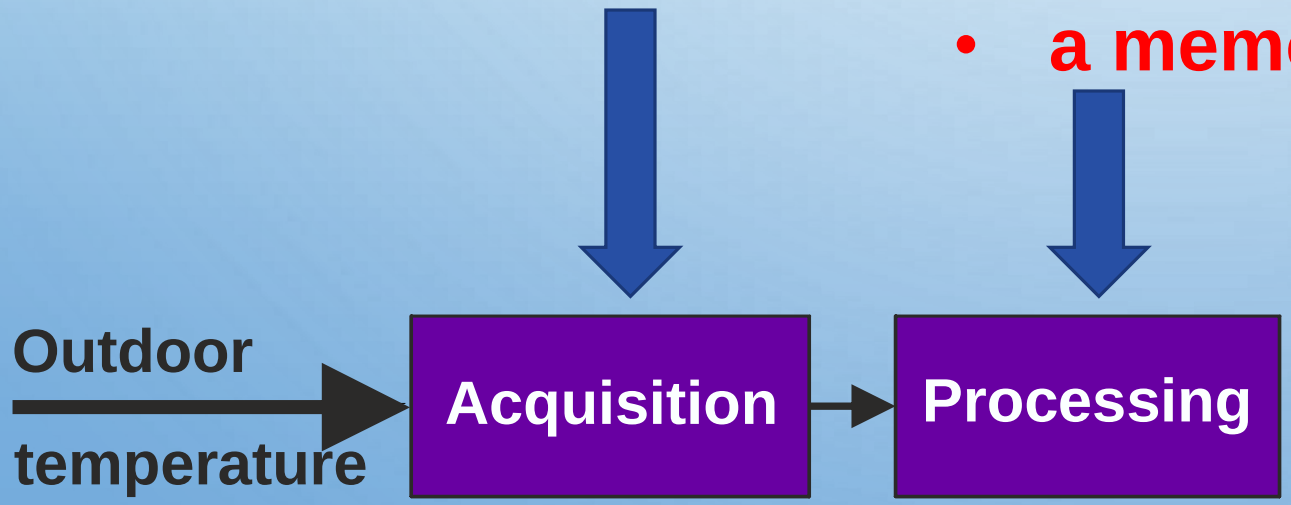


The information processing systems

From the mercury thermometer of yesteryear
… to the digital thermometer

→ The contribution of electronics technology :

- **a temperature sensor included in the thermometer**
- **a memorization device**

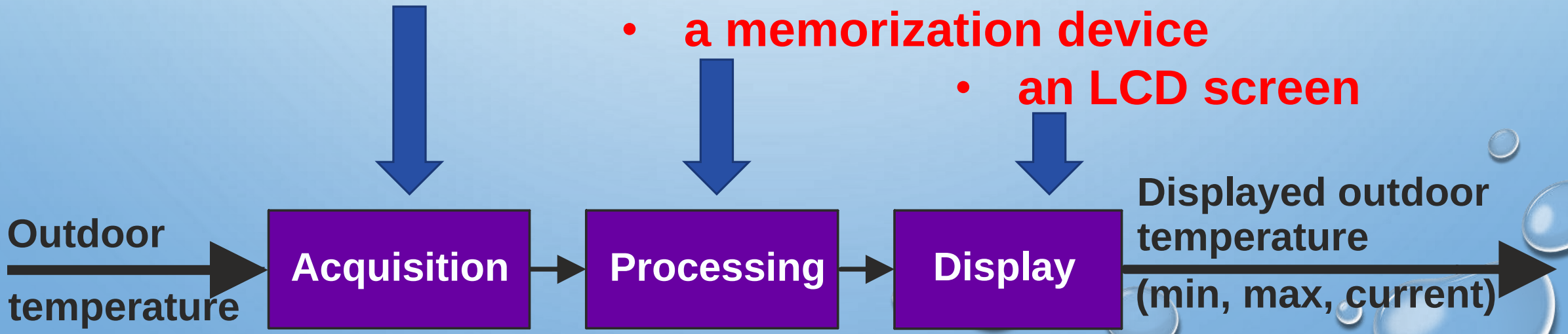


The information processing systems

From the mercury thermometer of yesteryear
… to the digital thermometer

→ The contribution of electronics technology :

- **a temperature sensor included in the thermometer**
- **a memorization device**
- **an LCD screen**

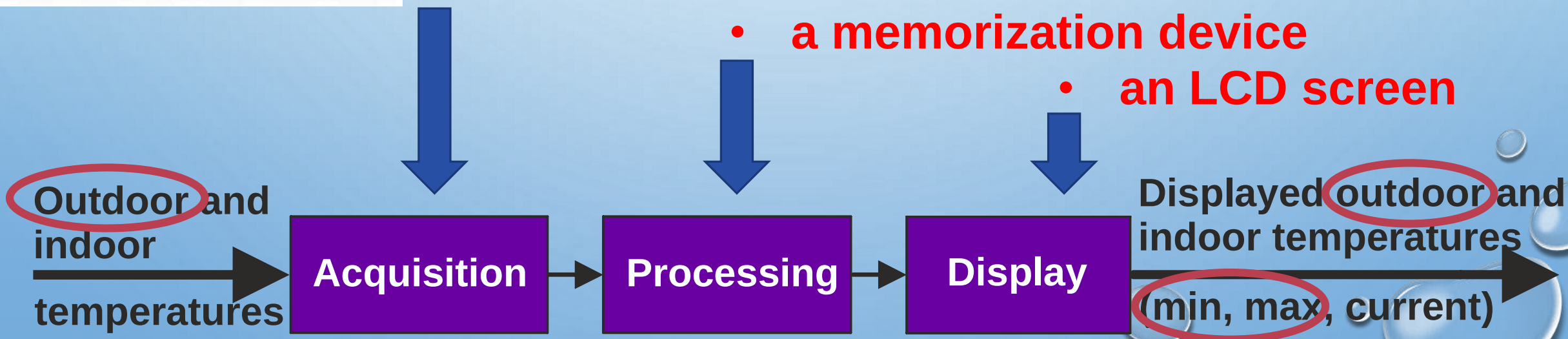


The information processing systems

And what if we measured and displayed both outdoor and indoor temperatures ?

→ The contribution of electronics technology:

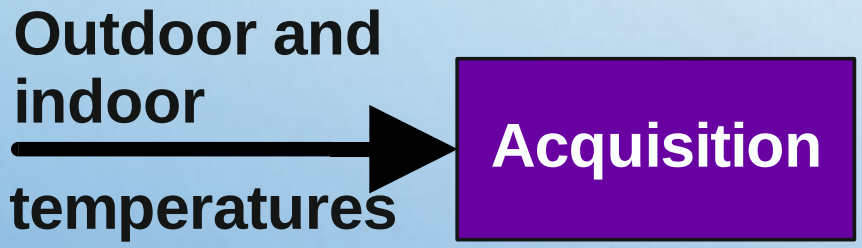
- **two temperature sensors**
- **a memorization device**
- **an LCD screen**



The information processing systems

Measuring and displaying the temperature : but why ?

→ In order to regulate the temperature of a house



The information processing systems

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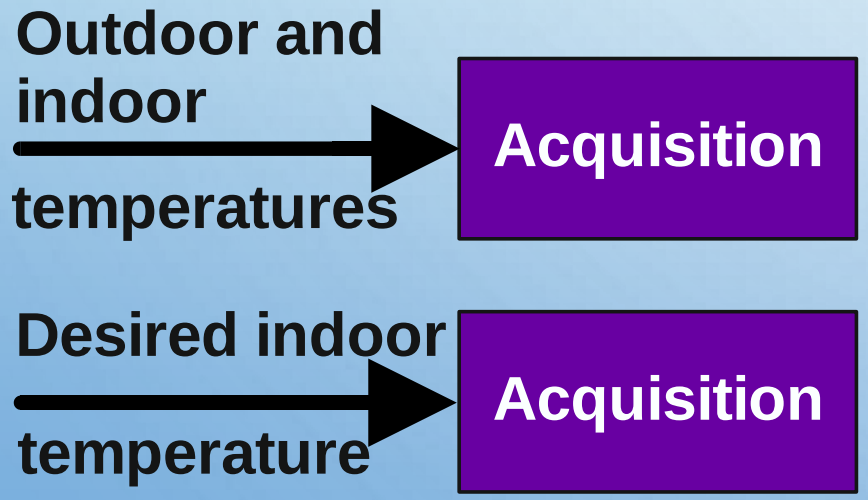

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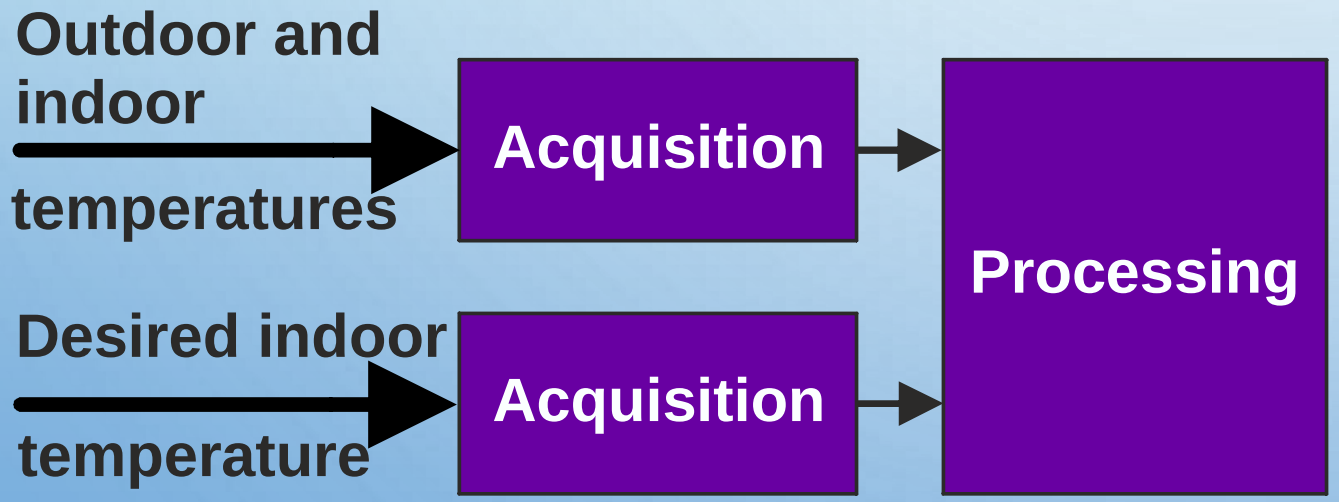

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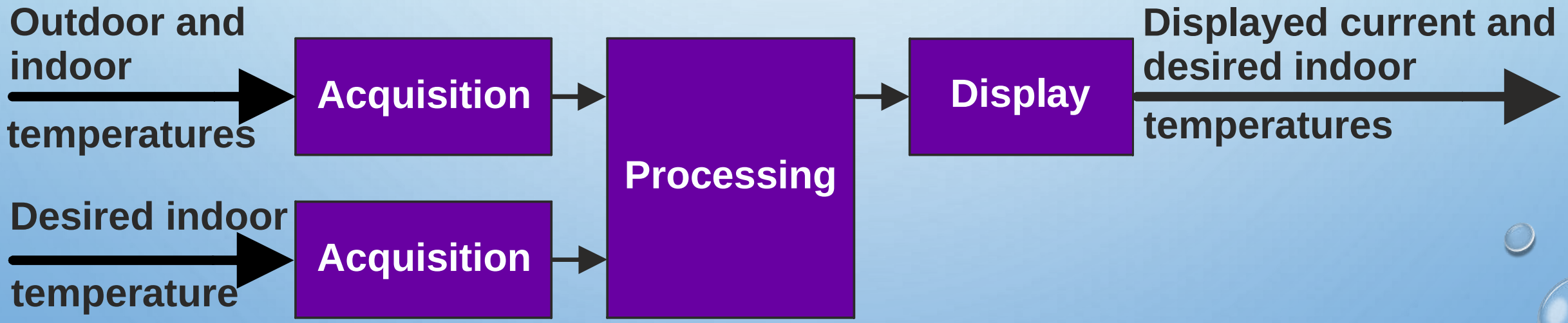

The information processing systems

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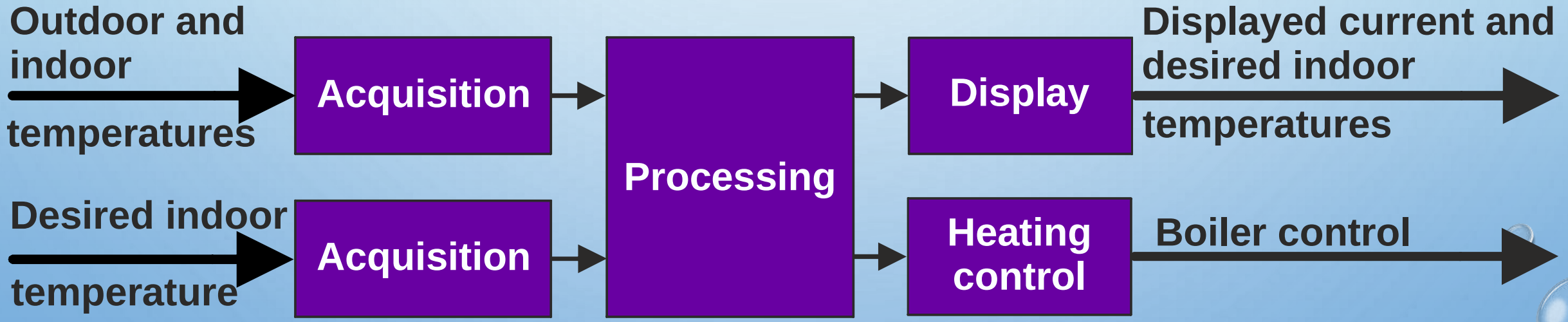


The temperature regulation control system

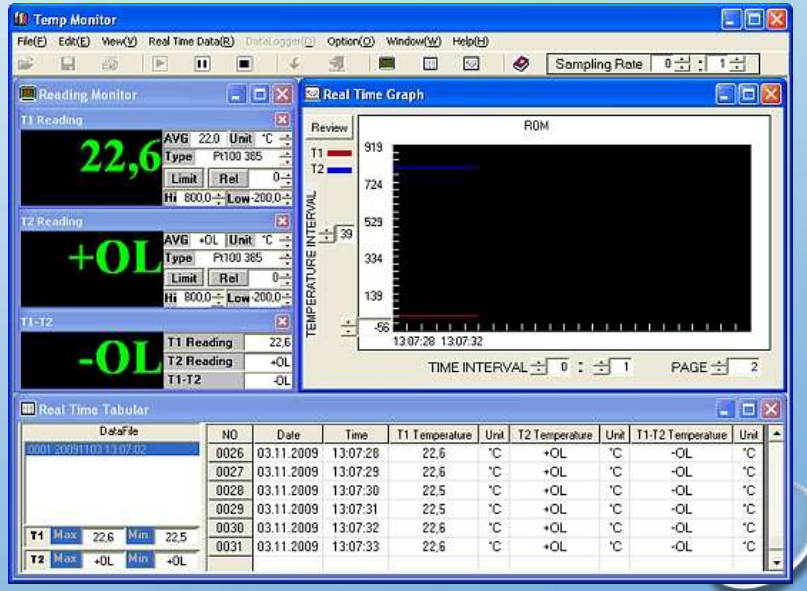
The information processing systems

2 ways of controling the desired regulated temperature :

Local access

With or without a remote control

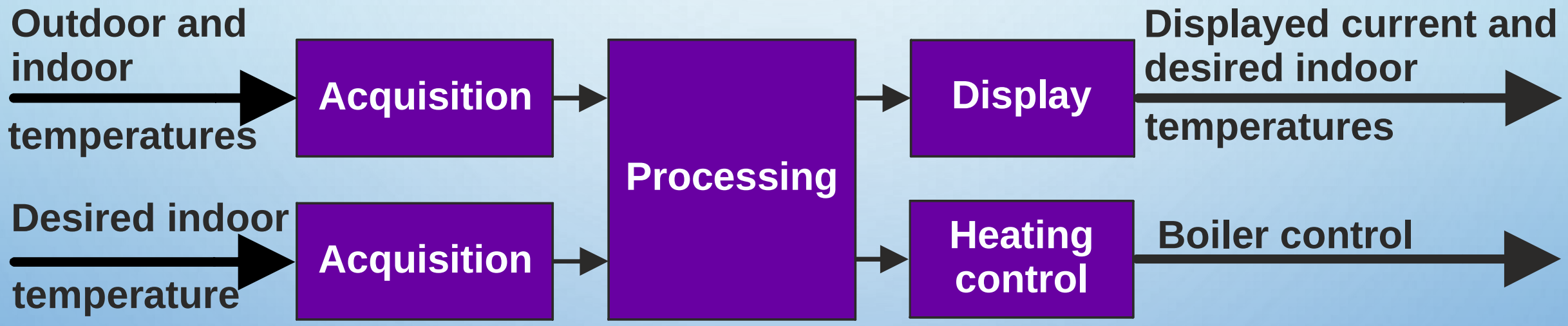
Remote access



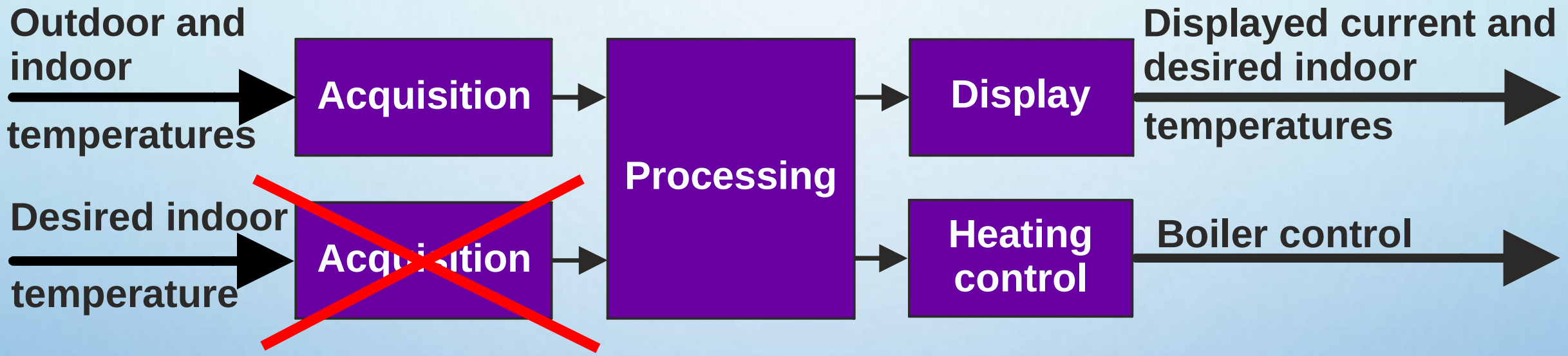
With a smartphone or a PC

The information processing systems

1) Local access without a remote control

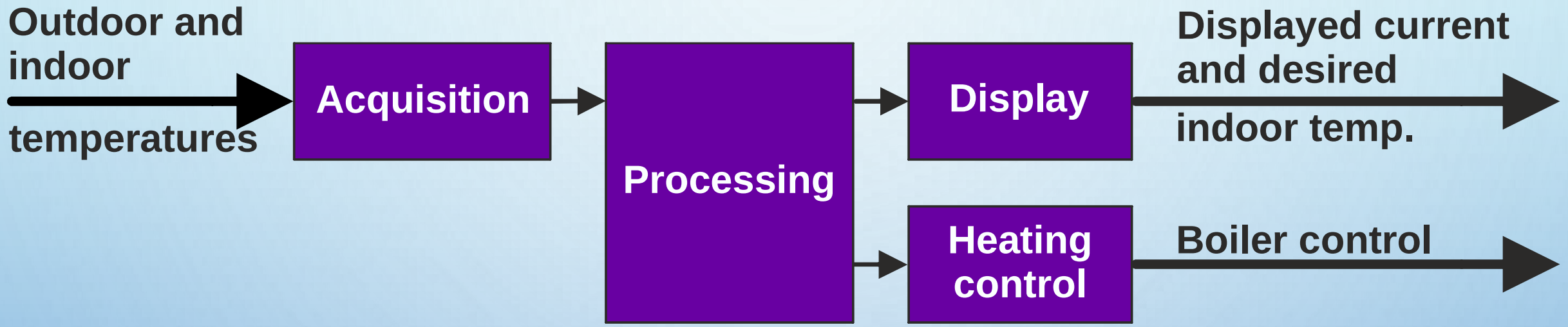


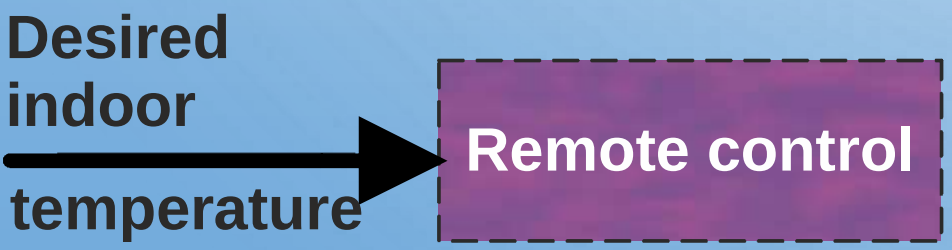
The information processing systems



2) Local access with a remote control

The information processing systems





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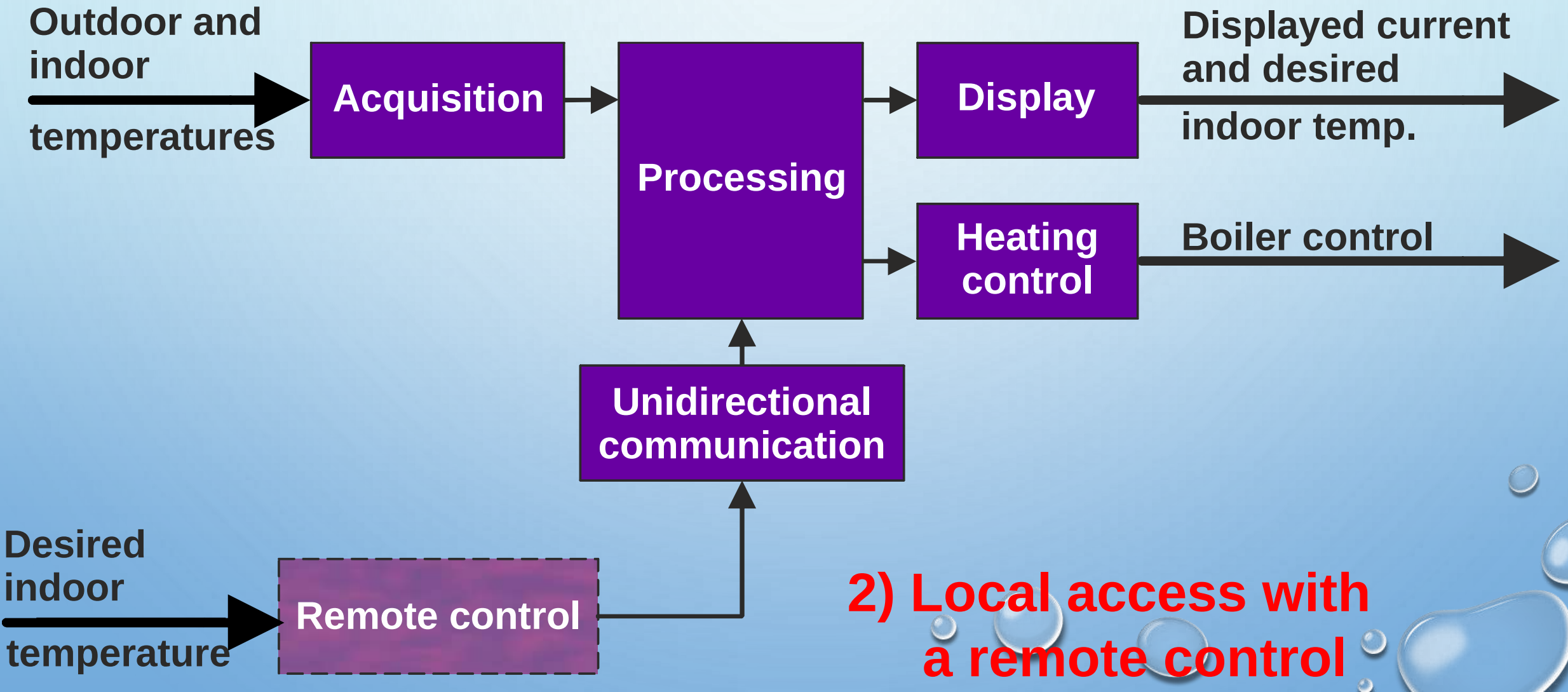
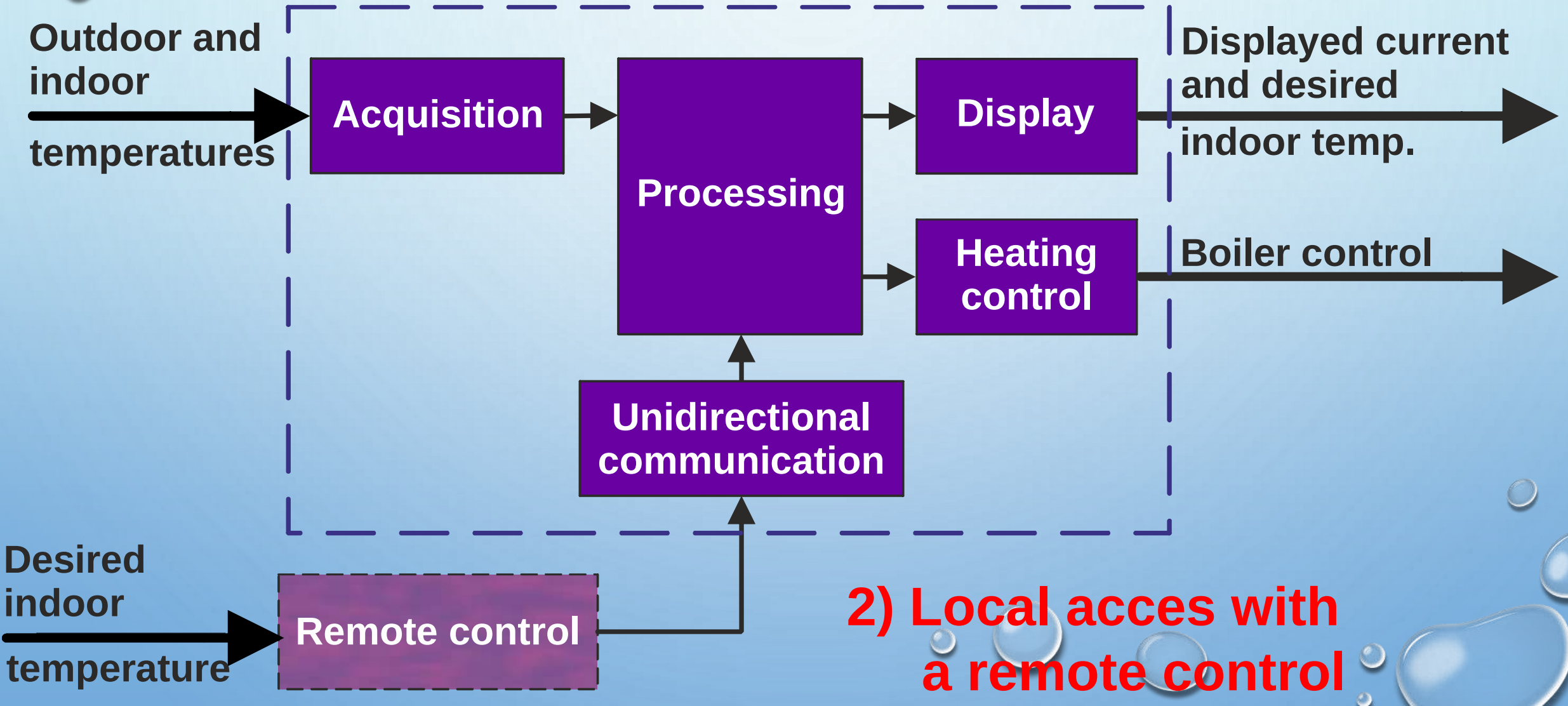
The information processing systems



2) Local access with a remote control

The information processing systems



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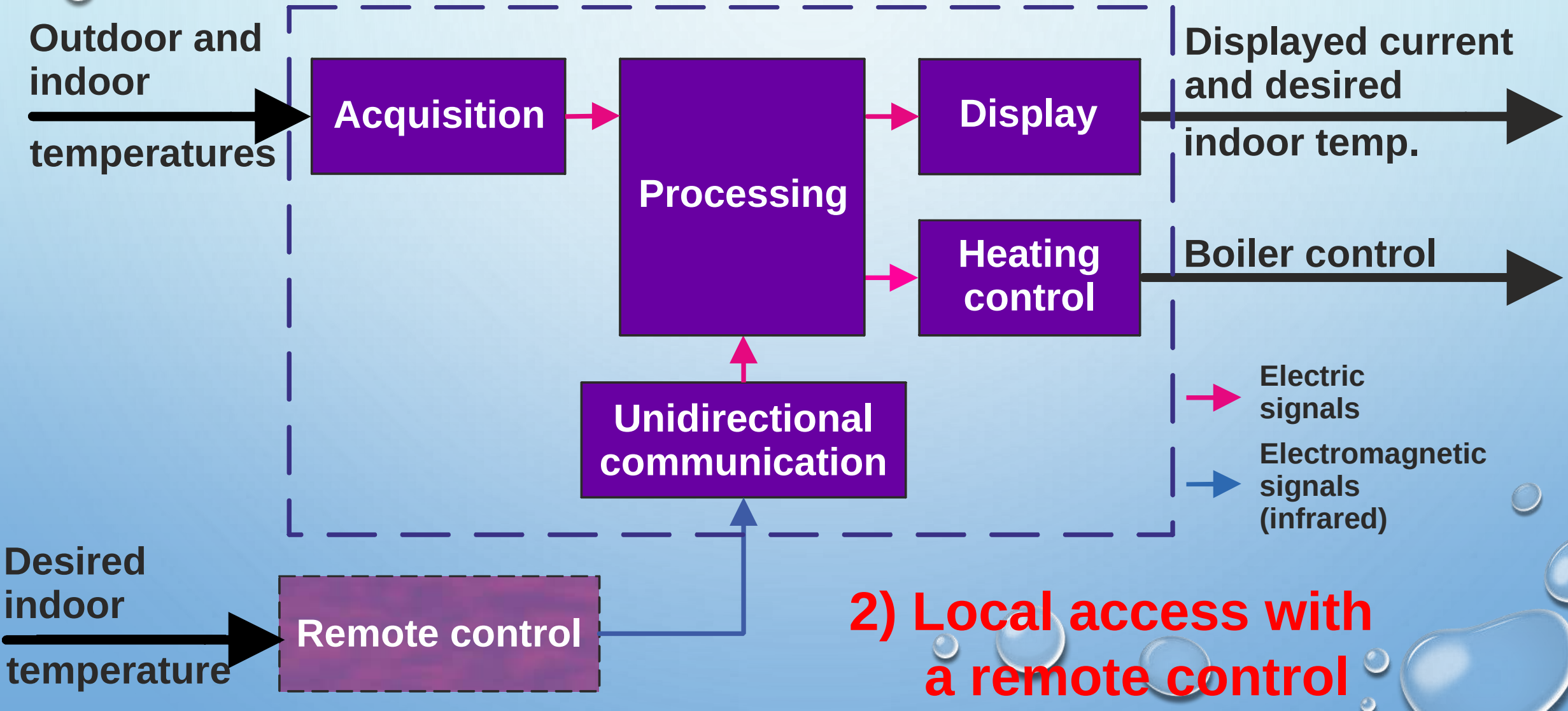
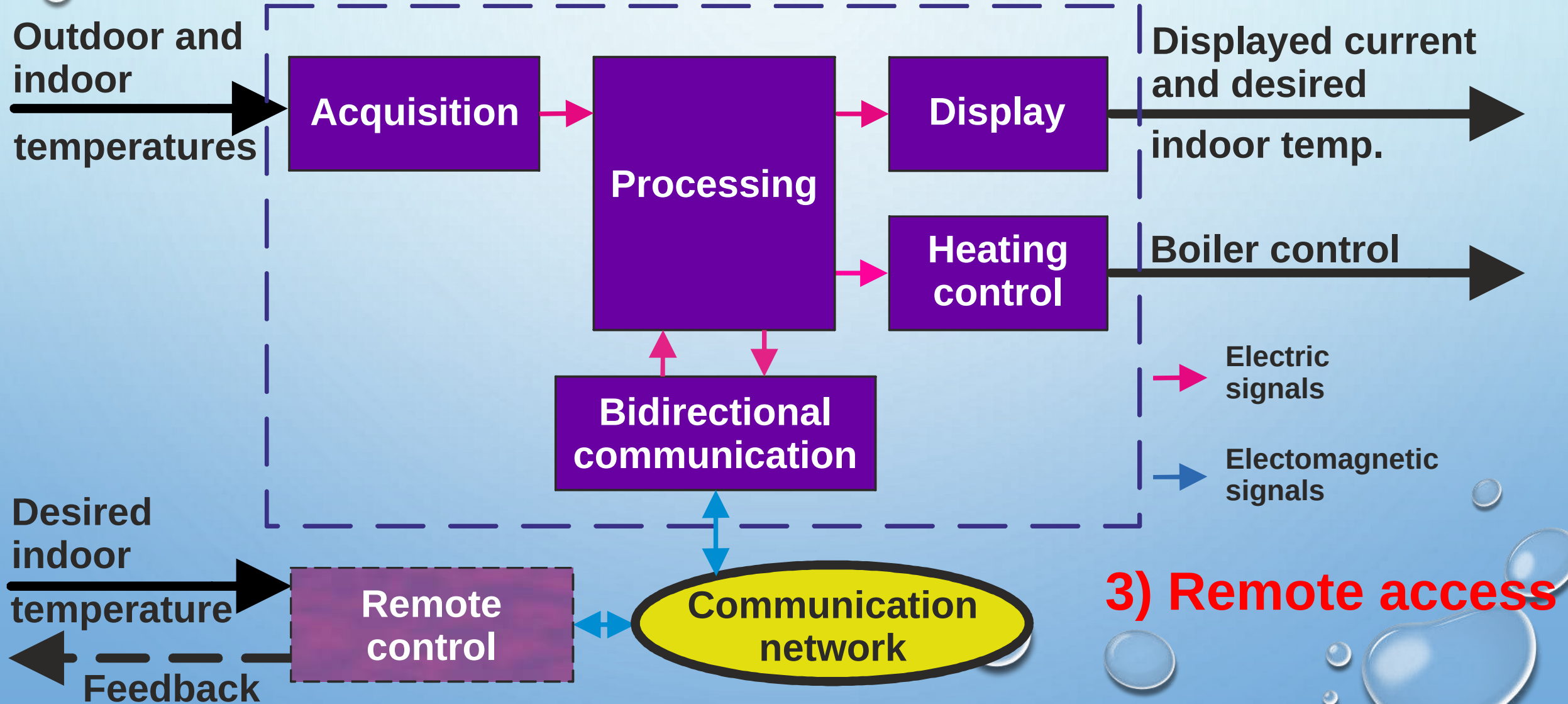
The information processing systems



2) Local access with a remote control

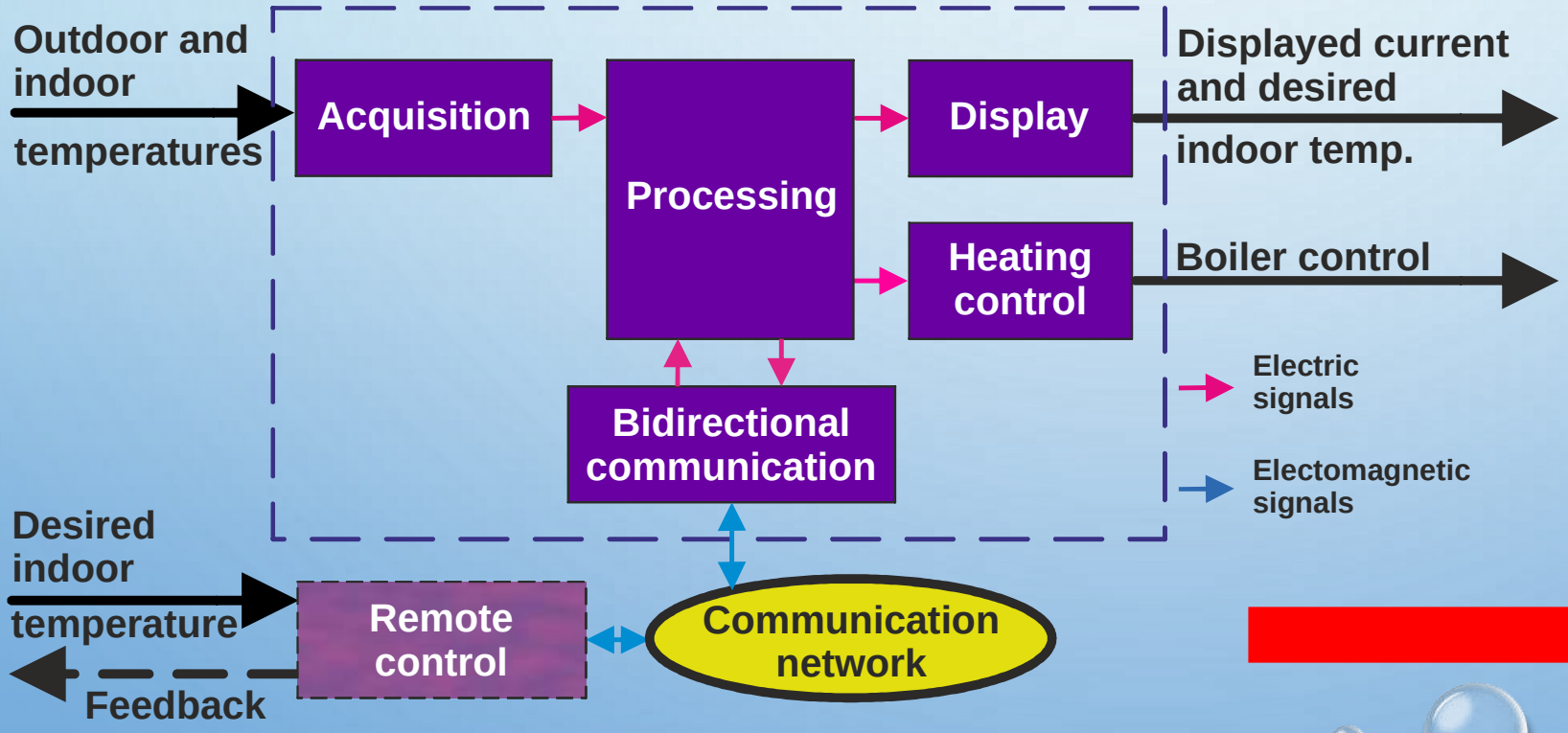
The information processing systems

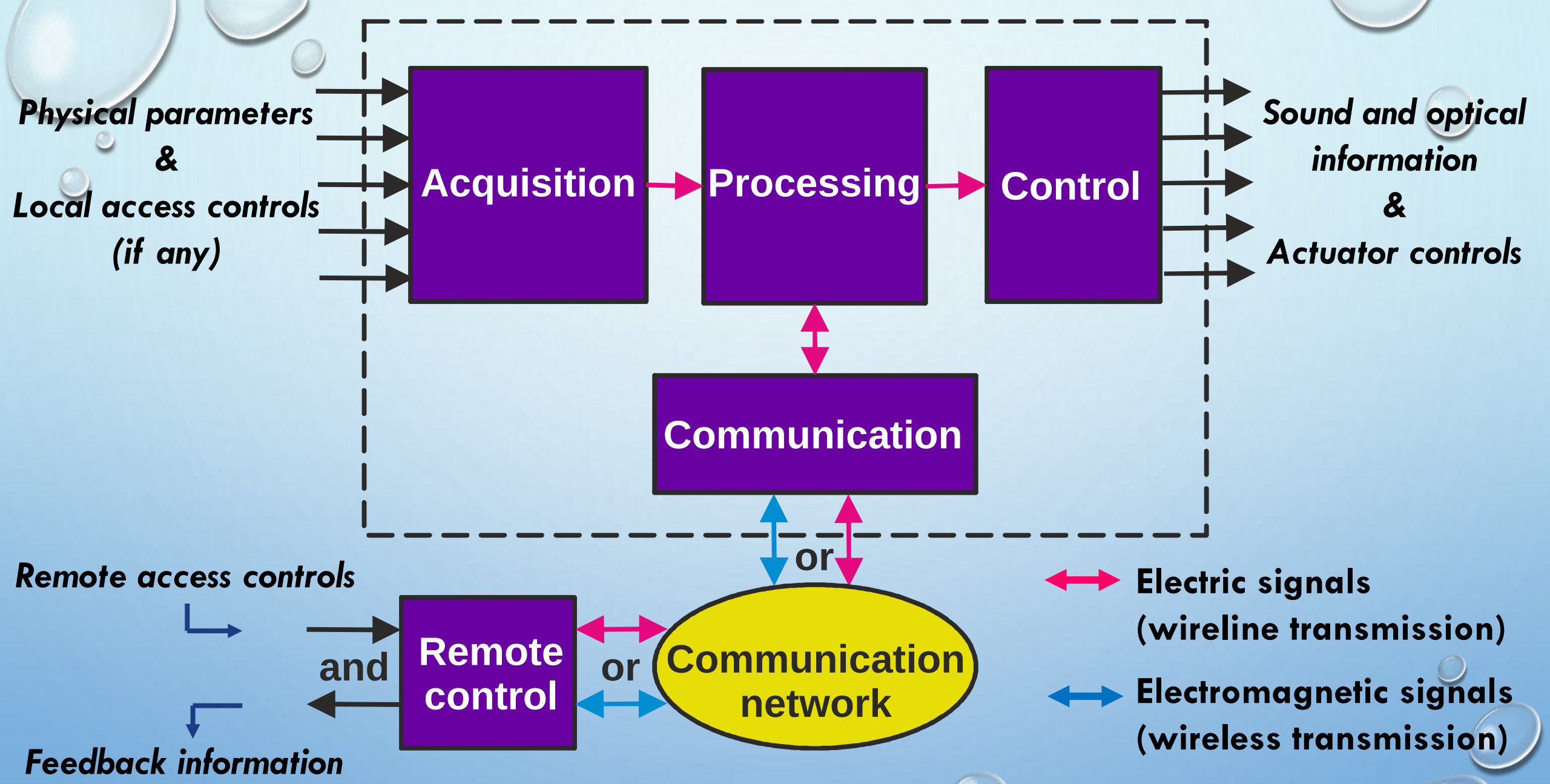


3) Remote access

The information processing systems

An example of information processing system : home automation





Generalization : the synoptic of an information processing system

An example of information processing system

The famous Parrot drone