

Self-Powered Liquid Detection Sensor

Factory equipment to Medical machines:
Reliability Matters in Battery-Free Liquid Detection

- No power source or power cable required
- A few drops of water can generate power



Applications

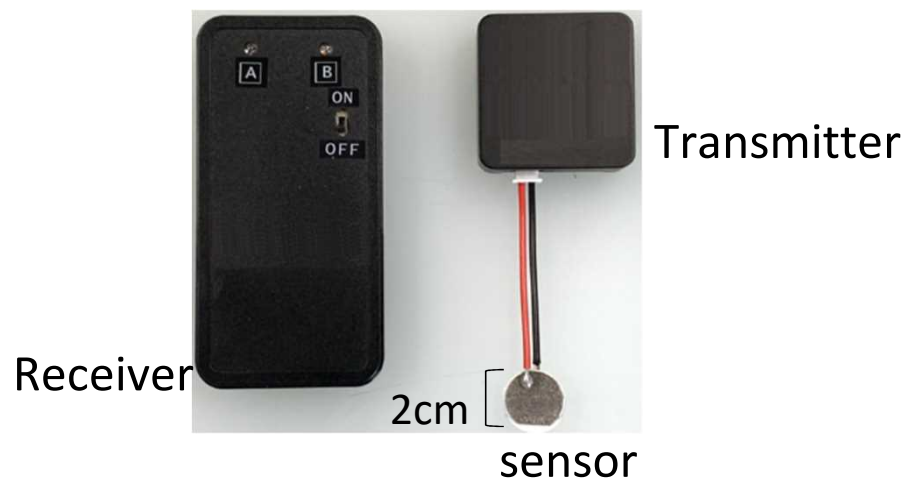
- Medical Application
- Analysis Equipment
- Industrial Use
- Nursing-care Field



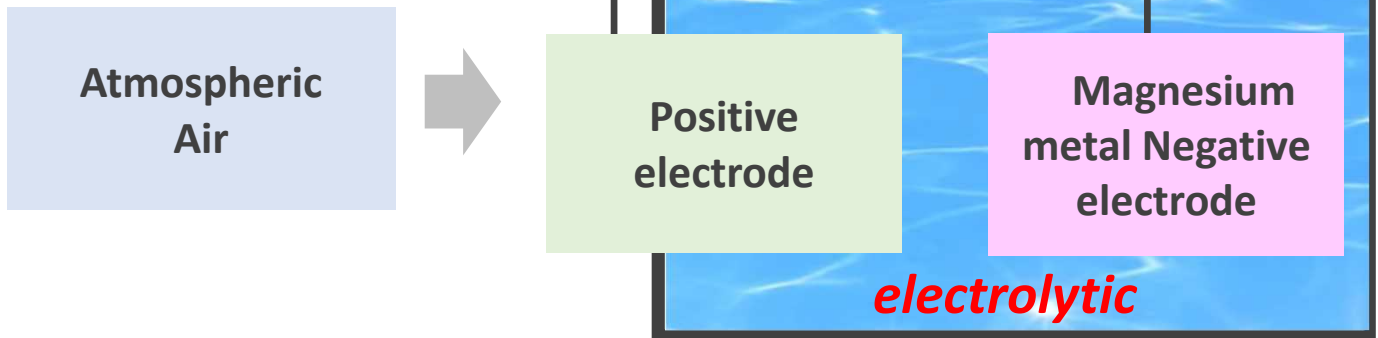
Sensor image



Standard size



Principle



- Medical Use - Concept

Blood Leakage or Medicine Leakage on Medical site
Considerations for Diapers nursing Babies or Adults

- Non-Medical Use -

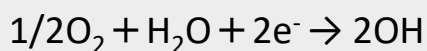
Water Leak Detection that could be serious incidents for buildings, pipes, or all kinds of machineries or equipment.

■ ■ Electrochemical reactions ■ ■

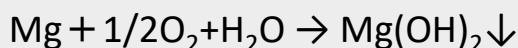
【Anode】



【Cathode】



【Overall reaction】



The sensor produces electricity through an electrochemical reaction with magnesium, using the target liquid as the electrolyte.