

No external power is required Generates power by itself

- No electrical wire is required
- A few drops of water can generate power

Applications

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





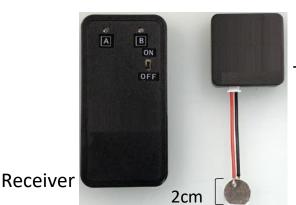




Sensor image

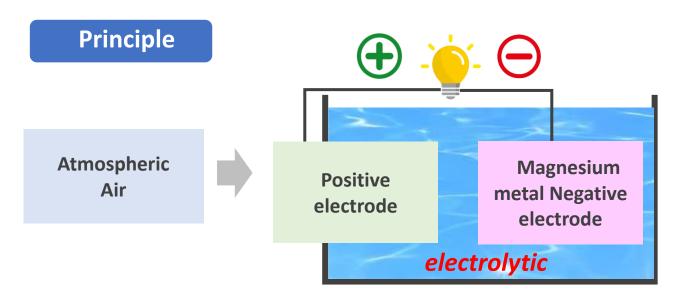


Standard size



sensor

Transmitter



- 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 seriousincidents for buildings, pipes, or all kinds of machineries or equipment.

■ ■ Electrochemical reactions ■ ■

[Anode]

 $Mg \rightarrow Mg^{2+} + 2e^{-}$ [Cathode]

 $1/2O_2 + H_2O + 2e^- \rightarrow 2OH$

[Overall reaction]

 $Mg + 1/2O_2 + H_2O \rightarrow Mg(OH)_2 \downarrow$

The sensor generates electricity by electrochemical reaction with magnesium using the liquid to be detected as the electrolyte.



Web: https://www.fujikura-control.com/english Founded: 1901

Sales: \$281 million US dollar (2023 March, consolidated) ISO certified: 9001, 14001, 13485

E-mail: seigyo.toiawase.en@fc.fujikura.co.jp

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