

Chilled-mirror dewpoint hygrometer

(JMA standard)

[composition]



Sensor



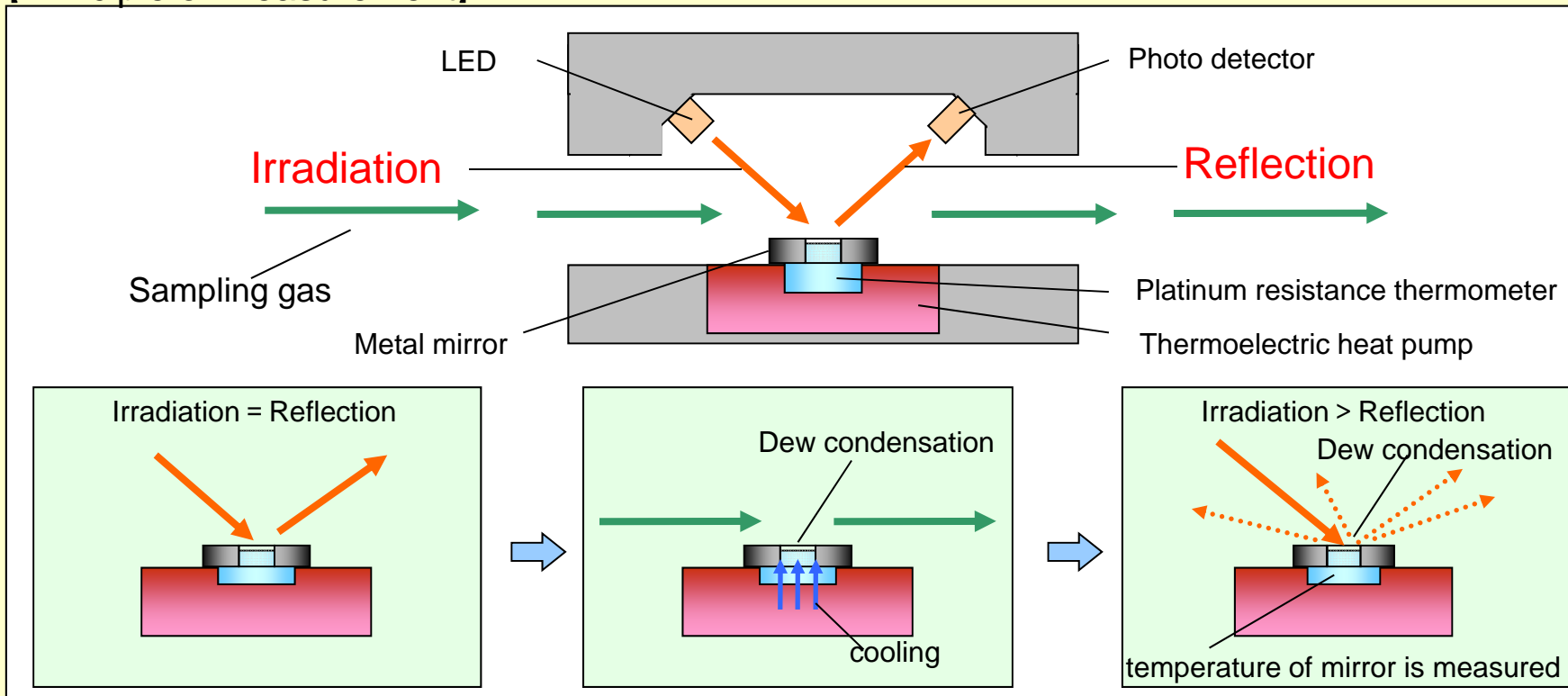
Metal mirror



Indicator



[Principle of measurement]



A chilled-mirror dewpoint hygrometer accurately determines the quantity of moisture in the air by directly measuring the dewpoint or frost-point temperature.

The sensor consists of a metal mirror, which is cooled until dew forms on its surface.

Dew condensation is determined optically; when it begins to appear, the temperature (known as the dewpoint temperature) of the mirror is measured with the electric thermometer.