

# Absolute radiometry electrically calibrated thermal detectors of optical radi

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### What is Radiometry?

Radiometry is the science of measuring electromagnetic radiation, which is a type of energy that travels in waves. Electromagnetic radiation includes visible light, ultraviolet light, infrared light, and radio waves. Radiometry is used to measure the power, intensity, and wavelength of electromagnetic radiation.

### Radiometry Temperature

Radiometry temperature is a measure of the temperature of an object based on the amount of electromagnetic radiation that it emits. The higher the temperature of an object, the more electromagnetic radiation it emits. Radiometry temperature is used to measure the temperature of objects that are too hot to measure with a conventional thermometer, such as the sun or a furnace.

### Absolute Radiometer

An absolute radiometer is a device that measures the absolute power of electromagnetic radiation. Absolute radiometers are used to calibrate other radiometers and to measure the power of lasers and other sources of electromagnetic radiation.

### Principle of Radiometry

The principle of radiometry is that the power of electromagnetic radiation is proportional to the square of its wavelength. This means that the shorter the wavelength of electromagnetic radiation, the more power it has.

### **Principle of a Radiometer**

A radiometer is a device that measures the power of electromagnetic radiation. Radiometers are typically made of a metal tube with a blackened surface. The blackened surface absorbs electromagnetic radiation and converts it into heat. The heat is then measured by a temperature sensor.

### **Examples of Radiometry**

Radiometry is used in a variety of applications, including:

- Measuring the temperature of the sun and other stars
- Measuring the power of lasers and other sources of electromagnetic radiation
- Calibrating other radiometers
- Detecting and imaging objects in the dark

### **Importance of Radiometry**

Radiometry is important because it allows us to measure the power, intensity, and wavelength of electromagnetic radiation. This information is used in a variety of applications, including:

- Temperature measurement
- Laser power measurement
- Radiometer calibration
- Object detection and imaging

### **Absolute vs. Relative Sensor**

An absolute sensor measures the absolute power of electromagnetic radiation, while a relative sensor measures the power of electromagnetic radiation relative to a

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reference value. Absolute sensors are more accurate than relative sensors, but they are also more expensive.

## **How a Radiometer Works**

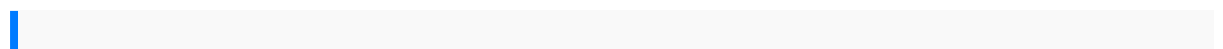
A radiometer works by absorbing electromagnetic radiation and converting it into heat. The heat is then measured by a temperature sensor. The temperature of the sensor is proportional to the power of the electromagnetic radiation.

## **Absolute Irradiance**

Absolute irradiance is a measure of the power of electromagnetic radiation per unit area. Absolute irradiance is typically measured in watts per square meter ( $\text{W/m}^2$ ).

## **Absolute Dosimeter**

An absolute dosimeter is a device that measures the absolute dose of ionizing radiation. Absolute dosimeters are used to calibrate other dosimeters and to measure the dose of radiation received by people.



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