

Reference : RADIO



The radiometer is a device that makes it possible to determine the spectral properties of materials.

When solar radiation arrives on the surface of a material, part of the radiation is absorbed, the other part is reflected.

Reflectance =  $\frac{\text{Reflected power}}{\text{received power}}$ .

The radiometer can measure this reflectance for different wavelengths:

- Green light
- Red light
- Infrared

In the industry, radiometers are used on board satellites to determine the composition of liquid water and water vapour in the atmosphere.

Our radiometer accessory works in combination with our luxmeter sensor (to be ordered separately ref. PS-2106).

It consists of a stand, a black opaque PMMA housing in which the luxmeter and a wheel are fixed under the housing, on which the filters (green, red and infrared) are glued. The wheel also allows measurements in natural light.

Our software comes with an option allowing calibration and a very simple use of the radiometer.

Dimensions :

- Housing (W x D x H mm): 80x150x60
- Hole hosting the luxmeter: 24.2 x 40.2mm
- Stand: 160 x 100 mm tray- 500 mm rod