

NET RADIOMETER

Radiation Balance



Design and progress...

are united in this revolutionary and futuristic-looking radiometer to an ingenious and highly reliable measuring system. **Maintenance-free**, conic and teflon-coated sensor elements make the constructive abandonment of housing and glass dome possible. The vertical metal rod prevents soiling by landing birds.

- small, light, robust
- highly precise evaluation of radiation balance in long-wave ranges
- thermopile measuring principle
- high quality materials guarantee long-term stability and weathering resistance
- analogous signal output
- factory test certificate included (DIN 10204)

agricultural meteorology • building physics (comfort analysis) • road condition monitoring

Professional Line

(16123) Net Radiometer

Id-No. 00.16123.000 000

Measuring element:

thermopiles • conic, teflon-coated absorber (without glass dome)

Measuring range:

-2000...+2000 W/m² • radiation balance within long-wave range of 0.2...100 μm

Range of application:

temperatures -30...+70°C

Non-linearity:

± 1% at < 2000 W/m²

Sensitivity:

10 μV/ W/m² (nominal)

Response time:

1/e 20 s (nominal)

Directional error:

< ± 30 W/m² at 0...60° angle of incidence

Dimensions/ Weight:

Ø 80 mm · supporting arm L 800 mm · Ø 16 mm · cable length 15 m · 0.2 kg

Standards:

ISO 9060 „second class” • certificate for sensitivity acc. to DIN EN 10204 (included in delivery)

Accessories:

00.08763.056 002

(8763 SB) Two-channel transducer for Radiometer (optional), see page 102.

