

LPNET07

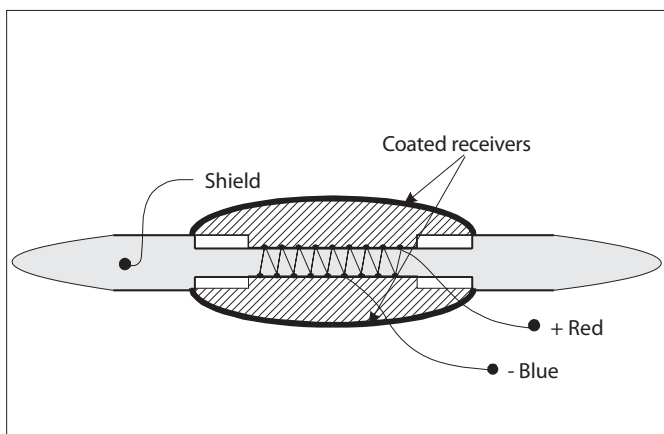


LPNET07 - NET IRRADIANCE METER

LPNET07 measures the net radiation across a surface, from near ultraviolet to far infrared. The Net radiation is defined as the difference between the radiation that reaches the upper surface and the irradiation on the lower surface of the net radiometer. The surface of the upper receiver measures the direct solar radiation plus the diffuse one and the radiation at longer wavelengths emitted from the sky (clouds), while the lower receiving area measures the solar radiation reflected from the ground (albedo) and the radiation length wavelengths emitted from the earth.

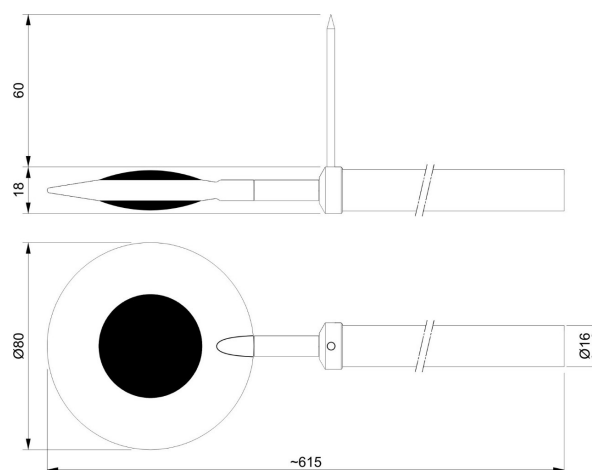
The instrument is designed and constructed to be used outdoors in any weather conditions.

Besides its use in meteorology to measure energy balance, the LPNET07 can be used indoors for the measurement of radiant temperature (ISO 7726)



Technical specifications	
Typical Sensitivity	10 $\mu\text{V}/(\text{W}/\text{m}^2)$
Impedance	2...4 Ω
Measuring range	$\pm 2000 \text{ W}/\text{m}^2$
Field of view	180° upper sensor 180° lower sensor
Spectral range	0.2 μm ...100 μm
Response time (95%)	<60 s
Working temperature	-40 °C...80 °C
Materials	Housing and fixing shaft: anodized aluminium alloy Sensitive area: aluminium alloy with PTFE coating Bird spike: stainless steel
Weight	0.35 kg ca.

DIMENSIONS



ORDERING CODES

LPNET07: Net irradiance meter supplied with support bracket $\varnothing 16 \times 500$ mm, bird spikes, calibration report, 5 m cable.