

Radiation

FRT STB Net Pyrradiometer

Overview

STB series net total radiation sheet is mainly used to measure the projected down from the sky and the earth's surface upward projection net difference of full wave radiation. At the same time can also be used to measure the shortwave radiation and the reflectivity of shortwave radiation; Long wave radiation and long wave radiation reflectivity and full wave radiation. Is the study of level measurement net total radiation of the ideal instrument. Measuring range of 0.3 ~ 3 microns shortwave radiation and 4 ~ 50 microns long wave radiation. Passive instrument has accurate measurement, good stability and easy to use free maintenance etc.

Application

Can be widely used in meteorology,
Farming, building science,
Road safety in areas such as transpiration calculation,
Thermal stress and thermal equilibrium in the research
Highway condition monitoring.



Qualification

Short wave sensitivity:	7~14 $\mu\text{m}\cdot\text{w}\cdot\text{l}\cdot\text{m}^2$
Long wave sensitivity:	2~10 $\mu\text{m}\cdot\text{w}\cdot\text{l}\cdot\text{m}^2$
Short wave Spectral range:	0.3~3 μm
Long wave Spectral range:	4~50 μm
Temperature measurement:	PT100
Response time:	<30s (99%)
Stability/year:	< \pm 2%
Working temperature	-40 $^{\circ}\text{C}$ ~+80 $^{\circ}\text{C}$
Signal output	0~20mV
Compensating temperature signal	0~100 Ω