PRODUCT OVERVIEW

Solar Albedometers

Model ES-S228TN

Introduction

ES-S228TN Albedometers is used to measure the net difference between the full band radiation projected downwards from the sky and upwards from the Earth's surface. The measurement range is short wave radiation ranging from 0.3 to 3 μ m. Applied to the calculation of soil moisture evaporation and transpiration, as well as the study of building mechanisms related to heat balance.

Application

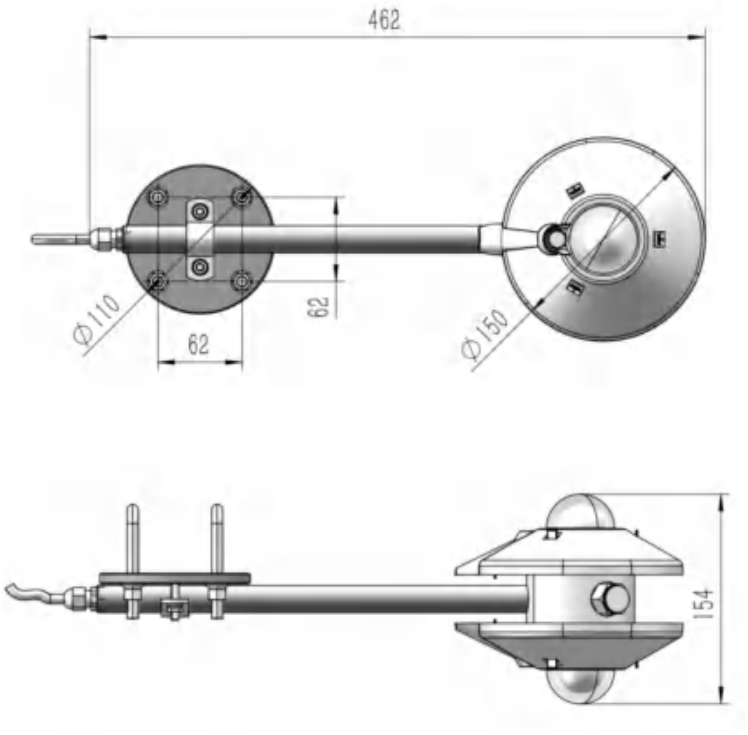
The ES-S228TN Albedometers is widely used in agricultural meteorology, calculation of soil moisture evapotranspiration, crop disaster prevention, and research on building mechanisms related to thermal balance.

Main features

- Integrated high-sensitivity thermopile technology ensures long-term accurate monitoring.
- The robust structure allows for stable operation in harsh environments such as high and low temperatures and salt spray.
- The integrated, compact design simplifies installation.
- An integrated high-precision temperature compensation unit eliminates interference from ambient temperature variations.
- It can perform independent single-point measurements or be connected to multiple instruments for expanded system functionality.

Dimension

Unit:mm



Tel: +86 28 87436908
Fax: +86 28 60253688
www.ecosentec.com
Email: info@ecosentec.com

Specification

Spectral range	0.3~3μm (Shortwave Radiation)
Signal range	-2000 ~ 2000W/m2
Output signal	RS485
Sensitivity	7-14 uV/W•m-2
Response time	≤10 seconds (99%)
Internal resistance	≤30Ω
Annual stability	≤±2%
Operating ambient temperature	-40°C ~ 70°C
Operating ambient humidity	0-100%RH
Weight	About 1.4KG

Order guide

ES-S228TN	Albedometers		
	CODE	Range	
	A	-2000 ~ 2000W/m2	
		CODE	Signal output
		1	RS485
ES-S228TN	A	1	Order example

Precision intelligence

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