

To the sun and back...

that is how the highly precise albedometer measures incident solar radiation as well as reflection radiation (short-wave) over many different surfaces.

Determination of radiation balance or separate signal output of direct and reflective radiation are possible without difficulties with this albedometer (albedo evaluation). Two thermopiles are especially aligned to the same sensitivity, thus guaranteeing exact results. Measurements are very reliable because the glass dome and white screens protect the measuring elements extremely well against wind and weather.

- ▶ radiation protection of the lower glass dome
- ▶ dry gel cartridge against fogging of the ground glass dome
- ▶ two modes of operation
- ▶ analogous signal output

classical meteorology • science and research • environmental measuring systems



Professional Line	(1611)	Albedometer	Id-No. 00.16110.100 000
Measuring element:		thermopiles with 64 thermo-electric cells • thermal	
Measuring range:		0...2000 W/m ² • global- and reflecting radiation within short-wave range of 0.305...2.8 μm	
Range of application:		temperatures -40...+80 °C	
Non-linearity:		±1.2 % at < 1000 W/m ²	
Sensitivity:		9...15 μV/ W/m ²	
Response time:		95 % 18s	
Directional error:		< ±20 W/m ² at 1000 W/m ²	
Impedance:		70...100 Ω	
Dimensions/ Weight:		upper screen Ø 150 mm · lower screen Ø 132 mm · housing Ø 79 mm H 115 mm · cable length 10 m • approx. 6 kg	
Standards:		ISO 9060 „first class” • certificate for sensitivity acc. to DIN EN 10204 (included in delivery)	
Accessory:			
00.08763.055 002	(8763 S)	Two-channel transducer for Albedometer (optional)	