



# Mod. **ALB**

## Albedometer

## Highlighted specs

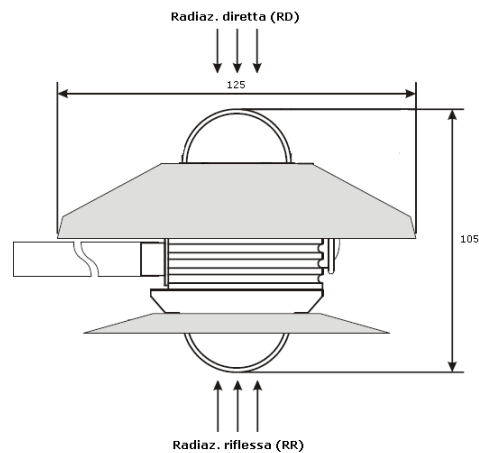
- Class I Albedometer
- WMO standards compliant
- Compact and light design in aluminium.
- Typical range 0÷1300W/m<sup>2</sup>
- High sensibility 10µV/(W/m<sup>2</sup>)
- Easy to install
- Spectral range 0,3µm÷3µm
- According to **CE** norms

The Albedometer basically consists of two pyranometers, mounted back-to-back, one pointing upward and one downward that measure the incident global radiation (direct radiation + diffuse radiation) striking the ground, and the global radiation reflected from the ground. It's a high quality instrument that, thanks the different types of standard **signal output (voltage or current) or digital RS485 with ModBus**, can be easily interfaced with any acquisition system. Each instrument is supplied with calibration certificate and relative instrumental constant.

|                                  |   |
|----------------------------------|---|
| <b>Typical measurement range</b> | 2 x 0 ÷ 2000 W/m <sup>2</sup>   |
| <b>Spectral range</b>            | 0,3µm ÷ 3µm   |
| <b>Visual range</b>              | 2π sr   |
| <b>Typical Sensibility</b>       | 10µV  |
| <b>Average Accuracy</b>          | 10 mV/ (kW / m <sup>2</sup> )   |
| <b>Accuracy</b>                  | ± 0.5 W/m <sup>2</sup>  |
| <b>Non linearity</b>             | < 1%  |
| <b>Transducer</b>                | Thermopile  |
| <b>Output resistance</b>         | < 30 ohm  |
| <b>Signal output</b>             | 10µV / W/m <sup>2</sup> ; [ 0÷2Vdc, 4÷20mA or RS485 ModBus] with MCS option |
| <b>Protections</b>               | Polarity reverse and transient  |
| <b>Working conditions</b>        | -30 ÷ +70°C   |
| <b>Made of</b>                   | Anodized aluminium and stainless steel                                      |
| <b>Power supply</b>              | 10 ÷ 30Vdc  |
| <b>Current Consumption</b>       | Auto power for N version, 10 ÷ 30Vdc <0,1W other version                    |
| <b>Weight</b>                    | <980g   |

## Size and connections

| Pin | Wire   | ALB-N     |
|-----|--------|-----------|
| 1   | White  | Out+ Up   |
| 2   | Green  | Out - Up  |
| 3   | --     | --        |
| 4   | --     | --        |
| 5   | Brown  | Out- Down |
| 6   | Grey   | GND       |
| 7   | Orange | Shield    |
| 8   | Blue   | Out+ Down |



## Order code

|                    |  |                  |                |  |     |
|--------------------|--|------------------|----------------|--|-----|
| <b>Sensor</b>      | Albedometer  | ALB              |                |  |     |
| <b>Output</b>      | 0÷2Vdc<br>4÷20mA<br>RS485 / Modbus<br>Naturale /Natural (µVolts)   | A<br>B<br>C<br>N |                |  |     |
| <b>Accessories</b> | CS05 – Cable 5m sensor-datalogger<br>CS10 – Cable 10m sensor-datalogger<br>CSxx – Cable xx* m length, sensor-datalogger – to be specified at order<br>SSU – Sensor support L=700-750mm |                  | 05<br>10<br>xx |  | SSU |

\*specify the length for no standard measures

example of order code

ALB N 10 SSU