

16203 SUNSHINE DURATION SENSOR



Robustness and longevity

Positive events in the form of sunshine trigger the three identical sensor elements' quick response. The elements themselves are absolutely immovable and thus guarantee maintenance-free operation, extreme robustness and longevity. Aligned to the nearest pole - the sensor is easy to install at all latitudes. In ice and snow, the system's two-phase heating is controlled externally or by an internal thermostat. The amount of sunny hours per day is of particular importance both for the growth of plants and for human well-being.

- stable glass cylinder for sensor protection
- waterproof cable plug connection for safe application
- innovative humidity indicator for easy handling

APPLICATIONS

- agricultural meteorology
- weather services for climate charts and tourist information
- health care
- climate categorization of health resorts

| Professional Line | 16203 |
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| Id-No. | 00.16203.010004 00.16203.110004 with integrated thermostat for heating control |
| Measuring range | sunshine yes or no • spectral range 400...1100 nm |
| Response time | < 1 m/s |
| Output | 0 ± 0.1 VDC: no sunshine • direct irradiance < 120 W/m ² 1 ± 0,1 VDC: sunshine yes • direct irradiance > 120 W/m ² |
| Range of application | -40...+70 °C |
| Power consumption | supply voltage of 12 VDC without heating: < 0.1 W at heating level 1 for defrosting of dew: 1 W ± 0.1 W (nominal) at heating level 2 for melting of snow: 10 W ± 1 W (nominal) |
| Measuring elements | 3 photodiodes |
| Measuring principle | photoelectric |
| Heating data | 00.16203.110004: heating level 2 on at < 6 ± 3 °C • heating level 2 off at > 14 ± 3 °C |
| Dimensions | approx. L 294 mm - Ø max. 72.5 mm |
| Housing | glass cylinder |
| Protection class | IP 67 |
| Weight | approx. 0.9 kg |
| Standards | CE 89/336/EEC • 73/23/EEC |
| Included in delivery | cable with 15 m length and 8 pole plug • 2 drying cartridges • specific test report |

As of: 23.10.2022