PRODUCT-VIEW

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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 tables and tourist information
- Health care
- Climate categorization of health resorts

Professional Line	16203
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: sunhine 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
Standard	CE 89/336/EEC • 73/23/EEC
Scope of delivery	sensor with 2 m cable length and 8 pole plug • 2 drying cartridges • specific test report

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