



Monocrystalline silicon sensor for the measurement of solar radiation and temperature module.

Measuring of encapsulated in plastic material cell resistant to weathering and UV rays. Outer container made of powder coated aluminum equipped with two brackets, each with an 8 mm hole and two 6 mm holes, used for fixing the device.

TECHNICAL SPECIFICATIONS

SILICON SENSOR

Solar Cell
 Operating temperature
 Electric connections
 Power supply
 Interface
 Container, Degree of protection
 Dimensions, Weight

Monocrystalline silicon (50 mm x 33 mm)
 from -35 °C to 80 °C
 Via 3 meter cable with protection against water and UV rays
 From 12 to 28 V_{DC} (40 mA @ 20 V_{DC})
 RS485
 Painted powder aluminum, IP65
 154 mm x 86 mm x 40 mm, about 360 g

PRECISION

Error (irradiance) with temperature compensation compared to pyranometer within the operating range from -20 °C to 70 °C and vertical beam of irradiation $\pm 5 \%$
 Error (temperature) $\pm 1,0 \text{ }^\circ\text{C} (-20 \text{ }^\circ\text{C} \div 70 \text{ }^\circ\text{C}) / \pm 2,0 \text{ }^\circ\text{C} (-20 \text{ }^\circ\text{C} \div 85 \text{ }^\circ\text{C})$

