

## Sensor Box Commercial

Irradiation sensor specifically designed for commercial plants

Sensors measure the precise deviations between the potential power production and the current power production and deliver key statistical values in regard to the quality of the whole plant. Once a deviation is detected, an error message is sent. The most important element in the Sensor Box Commercial is the irradiance sensor. This delivers a reference value for solar radiation and enables conclusions to be drawn about possible power generation problems. Due to the built-in internal module temperature sensor, it is easy to analyze reductions in performance and use this data to find the cause of the fault. Up to 9 Sensor Boxes Commercial can be connected. The irradiance sensor is equipped with a high-quality monocrystalline cell that is rugged and specifically designed for long-term use in outdoor locations. It is possible to use some RS485 inverters on the same bus.



### Technical data

Solar cell, laminated inside glass	Mono crystalline silicon (5 cm x 3.3 cm)
Dimensions (w x h x d) in cm, housing	8.5 x 14.5 x 4.0, powder-coated aluminium housing, IP65
Temperature range	-20 °C to +70 °C
Power supply	Via RS485 data cable from Solar-Log™ (10 – 28 V <sub>DC</sub> )
Measuring range radiation strength	0 to max. 1,400 W/m <sup>2</sup>
Tolerance	Irradiance sensor: +/-5 %
Scheduled	Not scheduled
Installation	On module assembly rails. Not necessary to open up the sensor.
Connecting cables	4 pin, 3 m, UV and weather-resistant
Ambient temperature sensor	PT1000 measuring range: -40 °C to +85 °C
Wind sensor	Cup anemometer measuring range: 0-40 m/s, gusts 60 m/s
Warranty	2 years

### Article number

Sensor Box Commercial, including irradiance sensor and module temperature sensor	220060
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