Product information Pyranometer KNX PY

## Efficient monitoring of PV systems with the KNX PY pyranometer

**Utilising global radiation measurement for optimum energy yield and intelligent building automation**

## A pyranometer helps to ensure the efficiency of photovoltaic systems. Real-time data on the total solar radiation hitting the system allows performance impairments such as dirt or defects to be recognised at an early stage.

## The KNX PY pyranometer records the global radiation, which is perceived as heat. From the measured instantaneous irradiance (watts per square metre), conclusions can be drawn about the energy input to an area over a certain period of time (kilowatt hours per square metre). Both values can be output by the KNX PY. Four limit values and additional logic links are available.

## As the pyranometer is seamlessly integrated into the KNX system, the data can also be used for the intelligent control of sun protection and air conditioning. The current global radiation value helps to utilise shading as effective heat protection. In the area of solar thermal energy (hot water production), the limit value of the thermal radiation indicates when it is worth activating the circulation pump.

## You can find out more about the possible applications of pyranometers in smart homes and smart buildings at <https://www.elsner-elektronik.de/en/pyranometer>.

## Captions:

*Elsner\_KNX\_PY\_Usecase.jpg  
The global radiation sensor helps to monitor the photovoltaic system.*

*Elsner\_KNX\_PY.jpg  
Compact pyranometer for KNX.*