

AXE 太阳能板传感器

产品名称	AXE 太阳能板传感器
公司名称	苏州致昇电子有限公司
价格	面议
规格参数	品牌:AXE 型号:JLP02
公司地址	中国 江苏 苏州市 苏州园区扬东路晶汇大厦905室
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产品详情

JLP02 is a solar radiation sensor that is applied in general observations. It measures the solar radiation received by a plane surface from a 180 Introduction o field of view angle. This quantity, expressed in W/m^2 , is called “ hemispherical ” solar radiation. JLP02 pyranometer can be employed outdoors under the sun, as well as indoors with lamp-based solar simulators. Its orientation depends on the application and may be horizontal, tilted (for plane of array radiation) or inverted (for reflected radiation). JLP02 pyranometer is a very good alternative to silicon cell (photodiode-based) pyranometers, which do not comply to the ISO 9060 standard.

Operation Using JLP02 is easy. The pyranometer can be connected directly to commonly used data logging systems. The irradiance in W/m^2 is calculated by dividing the JLP02 output, a small voltage, by the sensitivity. This sensitivity is provided with JLP02 on its calibration certificate. Uncertainty evaluation The uncertainty of a measurement under outdoor conditions depends on many factors. Guidelines for uncertainty evaluation according to the “ Guide to Expression of Uncertainty in Measurement ” (GUM) can be found in our manuals. We provide spreadsheets to assist in the process of uncertainty evaluation of your measurement.

JLP02 specifications Measurand hemispherical solar radiation ISO classification second class pyranometer Calibration uncertainty $< 1.8\%$ ($k = 2$) Calibration traceability to WRR Spectral range 285 to 3000 $\times 10^{-9}$ m Sensitivity (nominal) 15×10^{-6} V/(W/m^2) Rated operating temperature -40 to +80 $^{\circ}C$ range Temperature response $< \pm 3\%$ (-10 to +40 $^{\circ}C$) Standard cable length 5 m

Options • longer cable, in multiples of 5 metres • sun screen • JLP02-LI19, including read-out unit / datalogger LI19 See also • JLP02-TR with 4-20 mA transmitter

Figure 3 (1) cable, (2) cable gland, (3) thermal sensor with black coating, (4) glass dome, (5) sensor body, overview of JLP02: (6) levelling feet, (7) mounting hole, (8) bubble level Use as sunshine duration sensor WMO has approved the “ pyranometric method ” to calculate sunshine duration from pyranometer measurements in WMO-No. 8, Guide to Meteorological Instruments and Methods of Observation. This implies that JLP02 may be used, in combination with appropriate software, to estimate sunshine duration. This is much more cost-effective than using a dedicated sunshine duration sensor. Ask for our application note.

