

Пиранометр SP Lite2

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: kez@nt-rt.ru || сайт: <http://kippzonen.nt-rt.ru/>



SP Lite2 Silicon Pyranometer

For Cost Effective Measurement of Global Radiation

Compact and lightweight

Designed for use under all weather conditions

Used around the world in meteorology, hydrology and agriculture

Ideal for solar energy applications

Introduction

The effects of solar radiation are far reaching and it drives the dynamic processes on the Earth's surface and in the atmosphere. The total (global) irradiance on a plane surface is measured by a pyranometer. Kipp & Zonen has been manufacturing pyranometers for over 75 years and we produce models at all price and performance points, up to the very best available. However, some applications require a small and relatively low cost sensor with a fast response time, whilst retaining Kipp & Zonen quality. Therefore we developed the SP Lite2 Silicon Pyranometer.

SP Lite2 can be used under all weather conditions and is designed for a long operating life with simple maintenance. The sensor receives solar energy from the entire hemisphere in its view and produces a small voltage output that can be converted into the irradiance in Watts per square meter (W/m^2).

SP Lite2 is installed around the world for meteorology, hydrology, agriculture and building automation; where reliable measurement at relatively low cost is required, and

the performance of a broadband thermopile pyranometer is not needed.

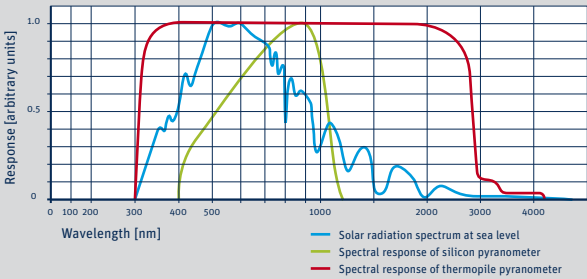
SP Lite2 is particularly suited to monitoring the efficiency of photovoltaic solar energy systems, where the spectral response is similar to that of PV cells. Solar radiation is also a key input to decision making on activities such as product quality control, determination of optimum location and predicting the system output under various sky conditions.

SP Lite2 is a simple pyranometer for routine measurements of solar radiation. It has a conical diffuser that provides excellent directional (cosine) response, causes rain to run off and is easy to clean. Although the spectral range is limited by the photo-diode detector, the performance of the SP Lite2 compares favorably to ISO 9060 Second Class thermopile pyranometers under clear and unobstructed natural daylight conditions.

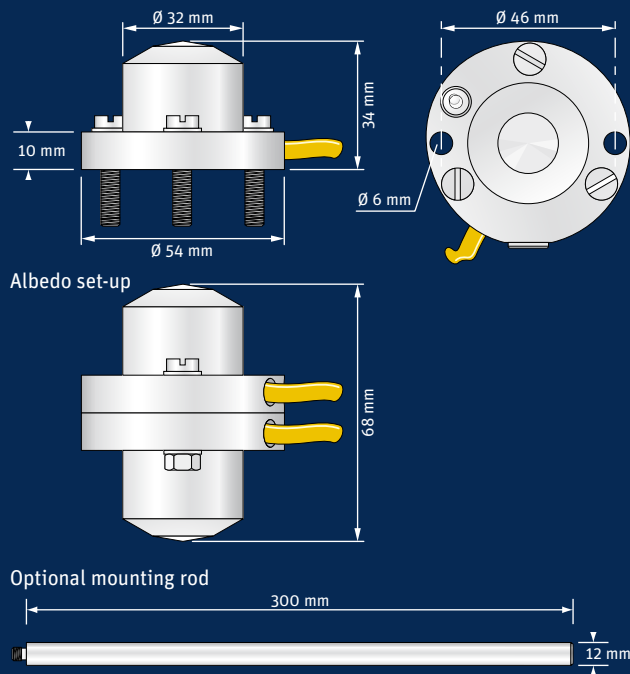
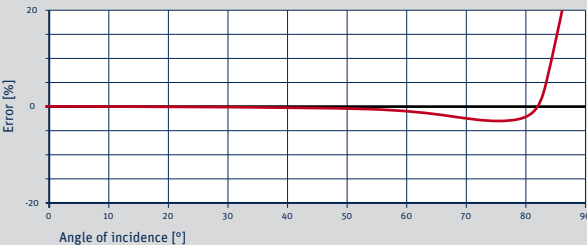
The mounting flange incorporates a bubble level and adjustment screws, for easy leveling. A threaded hole takes the accessory screw-in mounting rod for fitting to masts and poles. Two SP Lite2 instruments can easily be bolted back-to-back, and fitted with the mounting rod, to make a simple albedometer. The standard cable length is 5 m, with an option of 15 m. SP Lite2 is ideal for use with the METEON handheld display and data logger for field test testing.

Specifications	
Spectral range (overall)	400 to 1100 nm
Sensitivity	60 to 100 $\mu\text{V}/\text{W}/\text{m}^2$
Sensitivity (10 $\mu\text{V}/\text{W}/\text{m}^2$ version)	10 ± 0.5 $\mu\text{V}/\text{W}/\text{m}^2$
Impedance	50 Ω
Impedance (10 $\mu\text{V}/\text{W}/\text{m}^2$ version)	< 10 Ω
Expected output range (0 to 1500 W/m^2)	0 to 150 mV
Expected output range (10 $\mu\text{V}/\text{W}/\text{m}^2$ version)	0 to 15 mV
Maximum operational irradiance	2000 W/m^2
Response time (95 %)	< 500 ns
Non-stability (change/year)	< 2 %
Non-linearity (0 to 1000 W/m^2)	< 2.5 %
Directional response (up to 80° with 1000 W/m^2 beam)	< 10 W/m^2
Temperature response	- 0.15 %/°C
Field of view	180°
Accuracy of bubble level	< 0.2°
Detector type	Photo-diode
Operational temperature range	-40 °C to +80 °C
Storage temperature range	-40 °C to +80 °C
Humidity range	0 to 100 % non-condensing
Ingress Protection (IP) rating	67

Spectral response



Directional response





По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: kez@nt-rt.ru || сайт: <http://kippzonen.nt-rt.ru/>