



Kipp & Zonen SOLYS2 Sun Tracker

Product #: 0367900
USD Price: Contact Hach

The Kipp & Zonen SOLYS2 is a versatile sun tracking solution, a wide range of radiometers can be mounted. The integrated GPS automatically configures location and time, so the instrument does not suffer from internal clock drift.

Solar position and status monitoring information are available via the communication ports. An optional sun sensor is available for active tracking, to correct for motion in a support affected by changing environmental conditions.

SOLYS2 has both an isolated 4-wire RS-485 port and an Ethernet port for communication with the free SOLYSMonitor Windows™ software, or with data acquisition systems. RS-485 is particularly suited to a permanent remote access connection to regularly obtain the calculated sun position (zenith and azimuth angles) and the GPS time.

Applications: For use in harsher climates and to carry multiple instruments. Meteorology, climatology and BSRN stations. Solar energy site prospecting and plant monitoring.

No internal clock drift

The time is regularly updated by the GPS receiver. If the tracker is correctly leveled and aligned, and mounted on a solid and stable support, it will continue to point accurately. An optional sun sensor is available for active tracking.

Easy to set-up

An advance over conventional sun trackers is the integrated GPS receiver to automatically configure location and time data upon installation. SOLYS2 does not require a computer and software for setup. Leveling is easily checked using the integrated bubble level on top.

Configure as a complete set-up

With the optional top mounting plate and shading assembly SOLYS2 can be configured as a complete solar monitoring station with up to three ventilated Kipp & Zonen radiometers. A large range of mounting kits is available for direct solar radiation instruments.

Specifications

Analog Outputs:	No
Antenna:	Yes, GPS
Application:	For use in harsher climates and to carry multiple instruments. Meteorology, climatology and BSRN stations. Solar energy site prospecting and plant monitoring.
Body material:	White coated aluminium
Communication:	Ethernet + web browser / RS-485

Compliance Certifications:	CE, FCC
Dimensions:	19.7 x 13.4 x 15 in (500 x 340 x 380 mm)
Display:	No
GPS Features:	Location, date, time, longitude, latitude
Integrated Logger:	No
Interface:	Ethernet, RS485
Internet Application Software:	SolysMonitor
IP Rating:	IP65
Level Accuracy:	# $\pm 0.1^{\circ}$
Operating Temperature Range:	-20 to +50 °C
Payload:	44 lbs (20 kg)
Pointing Wind Force:	Beaufort Scale Hurricane Force 12
Power input:	24 VDC (18 to 30 VDC) and 100 to 240 VAC, 21 W day, 13 W night
Temperature Range:	-20 to +50 °C (DC power)
	-40 to +50 °C (AC power) to max. +55 °C with sun shield
Tracking Accuracy:	# $\pm 0.1^{\circ}$ (passive) # $\pm 0.02^{\circ}$ (active)
Transmission System:	Inverted tooth belts
Weight:	50 lb (23 kg)