



STR-32G Sun Trackers

Technical Specifications

Double arm Sun tracker

High torque and load (60Nm/60Kg)

GPS for easy and accurate set up by automatic retrieval of position and time

Standard Integrated Sun sensor

Power consumption less than 20W

The heavy-duty Sun Tracker STR-32G completes the extensive EKO Sun Tracker range and is capable to take the highest load without compromising the typical high precision and performance of the STR. Similar to the STR-21G/22G it features a fully automated set up procedure through a GPS receiver, providing increased reliability and enhanced functionality.

Even though the capacity load of the STR-32G is approximately 4 times more, the size hasn't changed. The most compact heavy duty sun trackers are perfectly suited to support all kinds of Global, Diffuse and Direct Radiation measurement sensors and spectroradiometers. Besides the standard EKO sensor mounts, various mounting options are available.

From sunrise to sunset the compact EKO Sun-Tracker guarantees accurate sun tracking and pointing of the attached solar sensors. The 2-axis tracker automatically adjusts to the sun's position by the sun sensor closed-loop control system, even if the tracker

is not oriented or leveled properly.

The sun-tracker comes standard with a mounting flange, the TRP-100 tripod is an optional extra. The 24 VDC low power consumption tracker can be powered by a solar-powered battery system or DC power supply. A wide range AC power adapter can be supplied to connect to the grid.

For over 20 years our clients who deployed the STR sun-tracker experience the ease of set-up, operating and reliable tracking.

	STR-32G
Arms	2
Pointing accuracy Solar elevation: 0 to 87°	< 0.01 °
Angle resolution	0.0036 °
Rotation angle Zenith	-15 - 95 °
Rotation angle Azimuth	0 - 360 °
Torque	60 Nm
Payload side arms	60 kg
Sun sensor FOV	30 °
Ingress protection IP	65
Operating temperature range	-40 - 60 °C
Communication	RS-422 / 232C
Power consumption	< 20 W
Power supply	21 to 31 VDC / 25W
Power supply (Power Adapter)	100 to 240 VAC / 30W
Dimensions mm	430 (W) x 380 (L) x 249 (H)
Weight	15 kg
Motor	Stepper motor
Driving technology	Harmonic drive®
Tracking mode	Solar position / Free positioning
Cable length	10 m

Options	STR-32G
Cable length Power cable	20 / 30 m
Cable length Communication cable	5 / 10 m
Tripod	TRP-100
Pyrheliometer mount A (1 position)	STR-22-AD
Pyrheliometer mount B (2 positions)	STR-22-AD
Shading assembly Disk	-
Shading ball assembly A (1 position)	MB-12-1
Shading ball assembly B (2 positions)	MB-12-2
Top mounting plate A (1 position)	TMP-S-(sensor model)
Top mounting plate B (2 positions)	TMP-D-(sensor model)

Specifications are subject to change without further notice.