



# The new SOLYS Gear Drive sun tracker

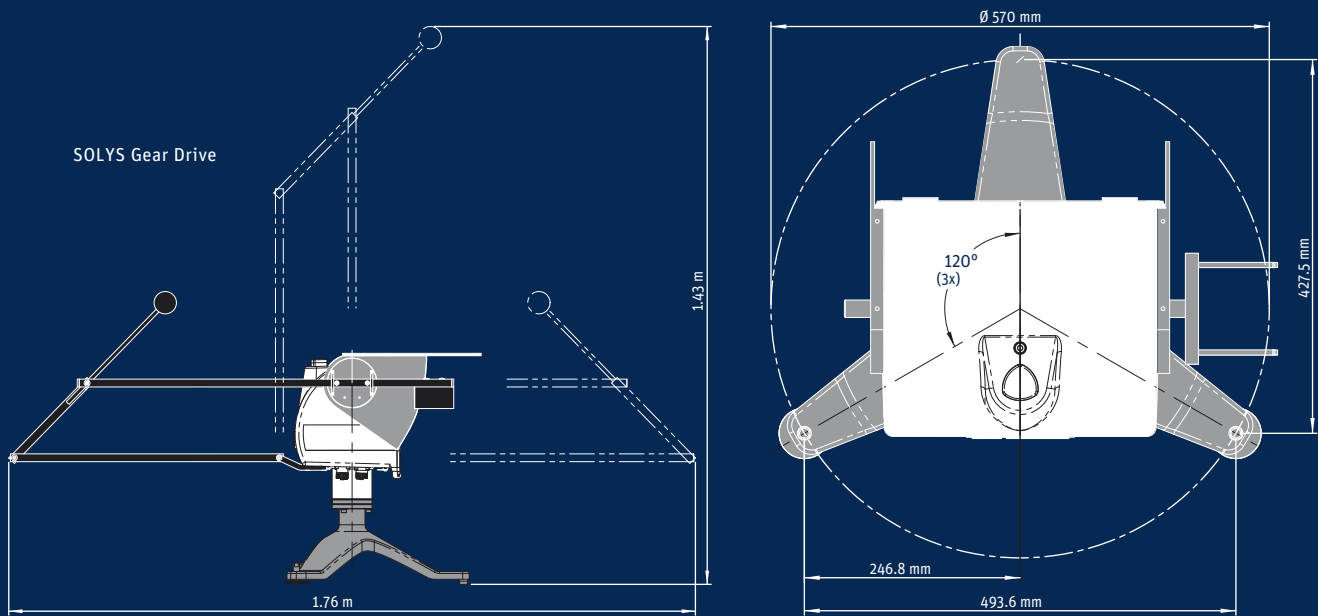
highest load, widest temperature range, best performance



**Temperature range -50 °C to +60 °C**  
**80 kg payload**  
**Ethernet and RS-485 communication**  
**Standard Sun Sensor**

The new SOLYS Gear Drive sun tracker with high precision reduction gear combines the highest payload, the widest temperature range and most advanced communication.

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| Specifications                         | 2AP   | SOLYS Gear Drive  | SOLYS 2   |
|--|---|---|---|
| Pointing accuracy                      | < 0.1 ° passive tracking<br>< 0.02 ° active tracking (sun sensor)     | < 0.1 ° passive tracking<br>< 0.02 ° active tracking (sun sensor)         | < 0.1 ° passive tracking<br>< 0.02 ° active tracking (sun sensor)       |
| Sun sensor                             | Optional  | Standard  | Optional  |
| Torque                                 | > 40 Nm (max. load & angular velocity)<br>> 40 Nm (when sun tracking) | > 40 Nm (max. load & angular velocity)<br>> 60 Nm (when sun tracking)     | > 20 Nm (max. load & angular velocity)<br>> 23 Nm (when sun tracking)   |
| Payload (balanced)                     | 65 kg   | 80 kg   | 20 kg   |
| Communication                          | RS-232 and WinZAP Windows™ compatible software                        | RS-485 (Windows™)<br>Ethernet and web interface                           | Ethernet and web interface  |
| Operational temperature range          | 0 °C to +50 °C  | -20 °C to +50 °C  | -20 °C to +50 °C (DC)   |
| Low temperature option                 | -50 °C to +50 °C (with heater & cold cover)                           | -50 °C to +50 °C (with heater & cold cover)                               | -40 °C to +50 °C (AC)   |
| High temperature option                | NA  | -20 °C to +60 °C<br>(with sun shield and bubble level protection)         | NA  |
| Storage temperature range              | -50 °C to +50 °C  | -50 °C to +60 °C  | -40 °C to +50 °C  |
| Supply voltage                         | 24 VDC only or 115/230 VAC, 50/60 Hz only                             | 18 to 30 VDC and 100 to 240 VAC, 50/60 Hz                                 | 18 to 30 VDC and 100 to 240 VAC, 50/60 Hz                               |
| Power consumption                      | 50 W<br>150 W (operating with optional heater)                        | 25 W (reduces to 13 W at night)<br>150 W (operating with optional heater) | 21 W (reduces to 13 W at night)<br>100 W extra with heater on (AC only) |
| Transmission                           | Worm and bevel gear   | High precision reduction gear   | Inverted tooth belts  |
| Location, time/date information, setup | Manual by WinZAP software   | Automatic by integrated GPS   | Automatic by integrated GPS   |
| Mounting base                          | Flat base plate   | Flat base plate   | SOLYS Tripod Floor Stand included                                       |
| Heavy Duty Tripod Floor Stand          | Optional  | Optional  | Optional  |
| Mounting for pyranometer(s)            | Optional  | Optional  | Optional  |
| Mounting for pyrhelimeter              | Two small side plates included<br>No mounting kit included            | One side plate<br>and pyrhelimeter mounting kit included                  | One side plate<br>and pyrhelimeter mounting kit included                |
| Indicators                             | NA  | Power, internal temperature and status LEDs                               | Power, internal temperature and status LEDs                             |
| Humidity range                         | 0 to 100 % non-condensing   | 0 to 100 % non-condensing   | 0 to 100 % non-condensing   |
| Ingress Protection (IP) rating         | 65  | 65  | 65  |

Note: The performance specifications quoted are worst-case and/or maximum values



Go to [www.kippzonen.com](http://www.kippzonen.com) for your local distributor

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SOLYS2GD-V1504

Kipp & Zonen B.V. reserve the right to alter specifications of the equipment described in this documentation without prior notice