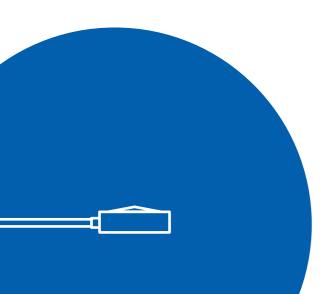
ML-02 Pyranometer



Preparing to Install

Required Tools Please prepare your own.



ML-02 Pyranometer

Thank you for purchasing this EKO product.

The Quick Start Guide provides basic instructions to help you set up and get started. Please see the Instruction Manual for more detailed information about this product.

Product Warranty

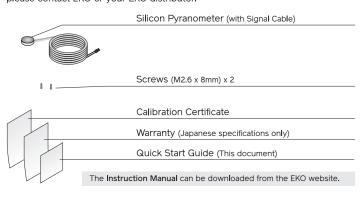
For warranty terms and conditions, please consult the Instruction Manual, EKO Instruments, or your distributor for further information.

Please Note: All of our products are tested to ensure that they meet their published specifications. The warranty included in the conditions of delivery is valid only if the product has been installed and used in accordance with the instructions provided in the Instruction Manual.



In the Box

First, please check the package contents. If any part is missing or damaged, please contact EKO or your EKO distributor.



Multimeter - Voltage. Impedance (Resistance) Phillips screwdriver for M2.6 Screv

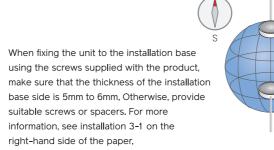
Compass

Location & Setup Conditions

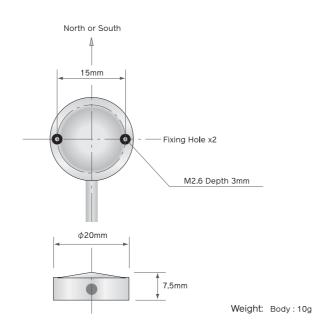
 Select a location with free horizon. without any obstructions and light reflections throughout the day



• Place the pyranometer with the cable facing the nearest pole.

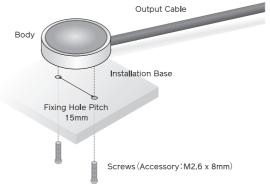


• Fix Holes on the Installation Base

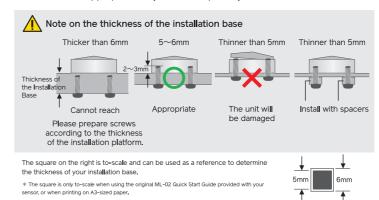


Installation

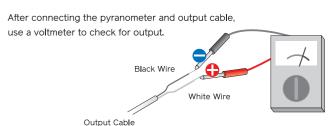
Fasten the pyranometer to the installation base



- Fasten the main unit to the installation base with two M2.6 screws.
- The thread depth of the body is 3mm. Note that if the screw penetrates more than 3mm deep into the body, the sensor will be damaged.
- The screws supplied with the product are 8mm long, which is the optimal length for an installation base 5mm to 6mm thick,
- If the installation base is thinner than 5mm, use spacers to adjust so that the screws do not protrude into the main unit more than 3mm, as shown in the diagram below.
- If the installation base is thicker than 6mm, please prepare longer screws that are appropriate for your base separately.



Checking the Output Voltage



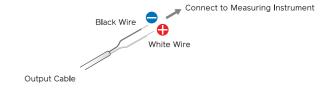
Approximate Output Values $\,$ When Sensitivity is $50\mu V/W \cdot m^{-2}$

Sky Condition	Overcast	*** Partly Cloudy	≭ Clear
Solar Irradiance [W/m²]	< 300	> 300	> 700
Output Voltage [mV]	< 15	> 15	> 35

When there is no Output:

Measure the impedance of the output cable (+/-) and check if the impedance is in the range between $43\sim53\Omega$, when using a standard 5m cable. Please contact EKO if the impedance is

3 Wiring



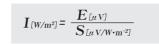
Measurement & Maintenance

Measurement Range

Set measurement range on the measuring instrument according to the below output range.

Output Range	[mV]	0 ~ 100

Calculate Solar Irradiance



- E: Pyranometer Output Voltage [μ V]
- S: Sensitivity [μ V/W \cdot m $^{-2}$]

Periodic Maintenance



Diffuser: Keep the diffuser clean by wiping it with a soft cloth. Check for cracks and scratches on the diffuser and the rim.

Cable Condition: Check and make sure the cable is attached securely and not damaged.

EKO INSTRUMENTS (€ 🕱

EKO Japan, Asia

P+81 (3) 3469 6711







EKO North America P. +1 408 977 7751

South America P. +31 (0) 70 305 0117 eko-instruments.com

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