

## Quick Start Guide

## MV-01

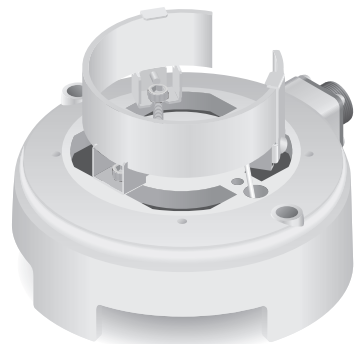
Thank you for purchasing EKO products.

This sheet provides the basic instruction for set up. See the Instruction Manual for further detailed information about this product.

## Product Warranty

Please contact EKO Instruments or your distributor for further details. The warranty is only subjected to the instrument which is installed and used in correct manner. EKO will not be reliable for any loss or damage caused from improper installation or use.

	Dimension [mm] (W x D x H)	Mass
<b>MV-01</b>	138 x 158 x 120	0.7 kg
<b>MS-80 + MV-01</b> Pyranometer (sell separately)	138 x 158 x 154	1.1 kg

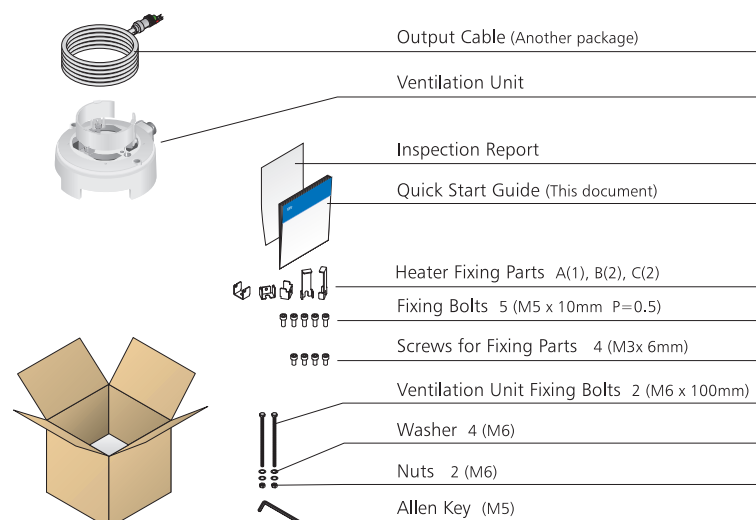


MV-01

MS-80 + MV-01  
Pyranometer  
(sell separately)

## 1 Package Contents

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

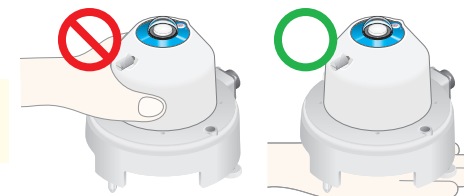


• Download the manual from EKO website.

• It is recommended to keep the original packaging in case Ventilation Unit is shipped back for repair or parts replacements.

## Caution for handling

Always hold the pyranometer from the bottom when carrying. Do not hold the sun screen part; sensor unit may drop.

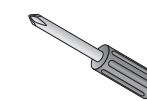


## 2 Preparation to Install

## 1 Required Tools Please prepare these tools.



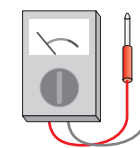
Wrench



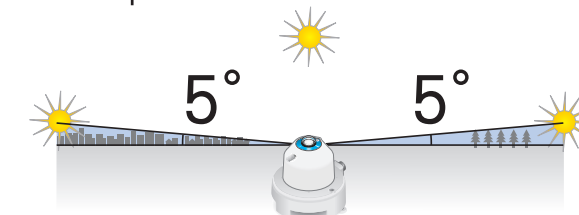
Screw Driver



Compass

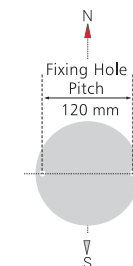
Multimeter  
(Voltage, Current,  
Resistance)

## 2 Location &amp; Setup Conditions

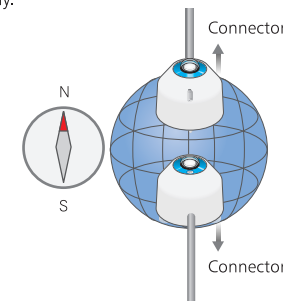


• Select a location with free horizon, without any obstructions and light reflections throughout a day.

• Fixing Holes on Installation Base



• Place the pyranometer with the Cable Connector facing the nearest pole.



## 3 Installation

⚠ Prevent from touching the heater when the heater is in operation.

⚠ You may get burned for touching the MV-01 when heater is in operation.

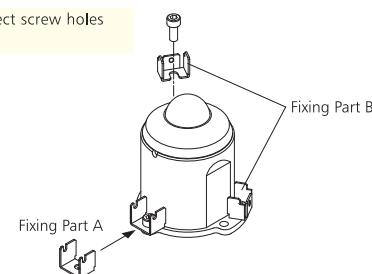
⚠ Heater unit contains temperature fuse.

⚠ Do not operate heater under ambient temperature more than 50°C. The temperature fuse may go out.

## 1 Remove leveling screws from the pyranometer, and attach to the MV-01.

## 2 Attach fixing parts A and Bx2 to pyranometer using fixing bolts (M5x10mm)

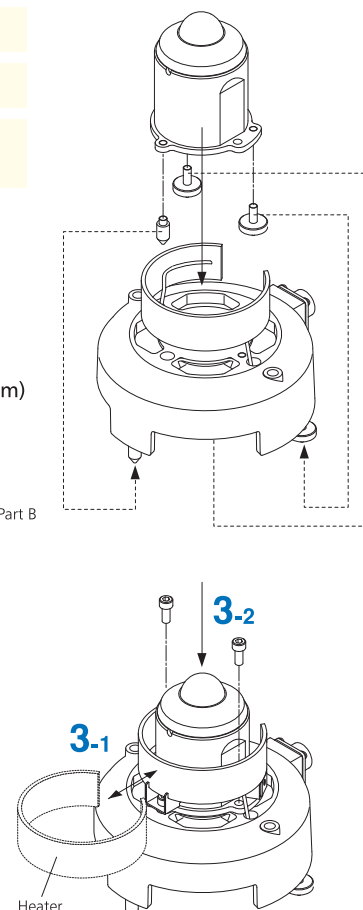
⚠ Make sure to use correct screw holes



## 3 Attach pyranometer to MV-01 base using fixing bolts (M5x10mm)

1 Before attach Pyranometer, remove the heater backward.

2 Make sure to attach in proper position, (cables aligned)



## 4 Attach heater

## 5 Insert Cables

## 6 Attach sun screen on the pyranometer

## 7 For horizontal adjustment use leveling screws.

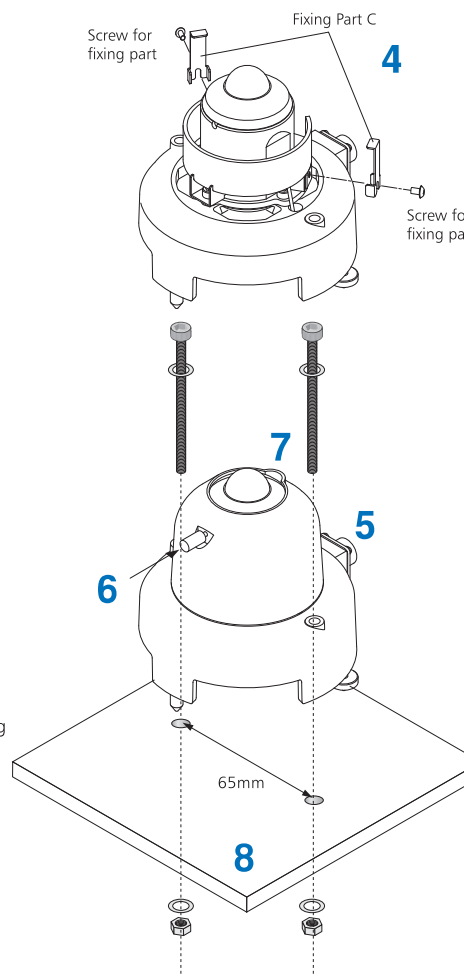


For installation at an inclined surface, it is recommended to level at a horizontal surface first.

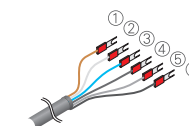
Horizontal surface:  
Level the pyranometer by adjusting the leveling screws.

## 8 Fix on installation base.

Using Fixing Bolts M6 x 100mm



## 9 Wiring



① Brown : Fan (+)	2A (*3)	+	DC12V
② White : Fan (-)		-	
③ Blue : Fan (Pulse)	2kΩ (*1)	+	Frequency Meter (*2)
		-	
④ Black : Heater (no polarity)	2A (*3)	+	DC12V
⑤ Gray : Heater (no polarity)		-	
⑥ Shield			

\*1: Connect to 12V power supply using a shunt resistor more than 2kΩ

\*2: Block pulse 90 to 110Hz

⚠ \*3: Connect a fuse (2A) in power supply line for safety.

⚠ Check before switching ON the power supply.

- Supply voltage 12V±10%
- Wire connections
- The fan can rotate freely

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