

Plane of Array Mounting Boom Installation

Introduction

RNRG provides Plane of Array (POA) mounting booms compatible with Li-Cor 200SZ, Hukseflux LP02 and Kipp & Zonen CMP3 / CMP11 pyranometers. Plane of array is sometimes called "Tilted GHI" (Global Horizontal Irradiance) and allows the user to mount the pyranometer at a predetermined tilt angle.

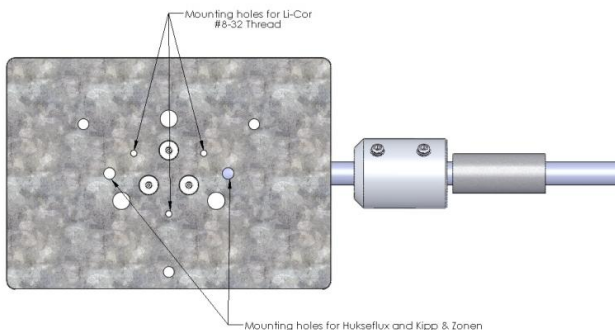
Assemble POA Boom

Fasten the plate to the boom using a 1/8 inch hex key.



Install POA Boom

Determine the mounting hole arrangement for your pyranometer using the drawing below. Make sure tower is level and plumb. Install the POA boom onto the tower with the supplied hose clamps so that the boom faces directly east or west.



Level the Boom and Mount Pyranometer

Place the supplied magnetic angle finder onto the plane and make sure the boom is horizontal. Once the boom plane is horizontal, mount and level the pyranometer according to the manufacturer's instructions. When this step is complete, the pyranometer will be level relative to the earth (plane of 0 degrees).



Adjust Boom to Desired Angle for POA

Locate the collar on the boom near the angle arm. Loosen outer collar screw with 1/8 inch hex key, and adjust the plane to the desired angle. Tighten the collar screws to hold the plane in place. Be sure to record the final angle and further document the installation by taking photos.

