Pyranometer Modbus Option
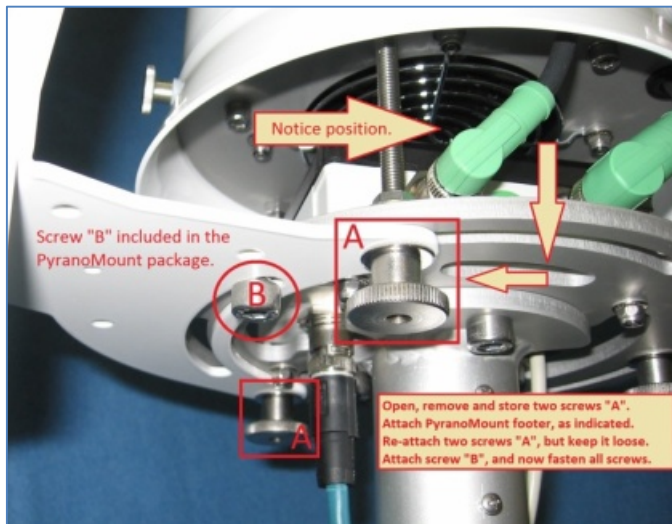*Pyranometer Mounting Arm*
External TRH-Sensor

Pyranometer Option: To connect and operate a Pyranometer with any new ASI-16/51, for logging of real-time irradiance data (Act, AvP, AvM, Min, Max). Subject to purchase of Pyranometer Option. - Activation after Purchase.

Pyrano Mounting Arm: To mount a Pyranometer directly onto the ASI-16/51 base plate, avoiding any additional third-party mechanical mounting tools. Allows mechanical sensor adjustments for qualified measurement of GHI or GTI.

ASI-16/51 Pyranometer Option - Delivery and Mounting

CMS ASI-16/51 "Pyranometer Mounting Arm" comes with two non-pre-assembled arm components, and small additional parts (screws, washers) for assembly and mounting. Screws to mount the Pyranometer itself are NOT included. Usual those screws are a part of the Pyranometer supplier scope of supply.

For proper mounting of the "Pyranometer Mounting Arm", follow instructions within the picture. Notice, there are three possible ways of mounting. Only one ensures correct North-South arm orientation , necessary for non 90° tilt angle adjustments, required for GTI.

When mounting the Pyranometer, consider Northern or Southern hemisphere. The plug and cable always shall face "away from sun", to avoid heat by exposure to direct sun radiation, therefore likely corrupt Pyrano irradiance data.

Specifications and designs in this paper are preliminary and for general information purpose, only.

ASI-16/51 Pyranometer Option - Software Functions

ASI-16/51 "Pyranometer Option", is an OPTION, not part of standard delivery.
To activate this option, you must purchase and pay the applicable option fee.
After CMS-Schreder confirmation, you must run an ASI-Manager "FULL RESET".
And, of course, you must purchase and mount an ASI-compatible Pyranometer.
At the moment, CMS ASI-16/51 supports EKO-Modbus-Pyranometers, only.

ASI-15/51 Pyranometer Option - Datalogger Irradiance Data

PIRA: Last Second Value   "PIR_": Irradiance Values in [W/m²]
PIRP: Packaged Average   PIRM: Moving Average
PIRH: Last Interval Maximum   PIRL: Last Interval Minimum
Average time period and PIRM weighting to be customized, via parameters.
ASI Datalogger captures 1/sec raw values , and calculates others there from.

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