

# Hukseflux Pyranometer Cabling Connection Application Note



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Please follow the combined instructions in this application note, Pyranometer Insulation Disc Installation guide and in your pyranometer user manual when installing SRxx-Dx digital pyranometers. Not doing so may result in system failure and permanent damage to your sensors.

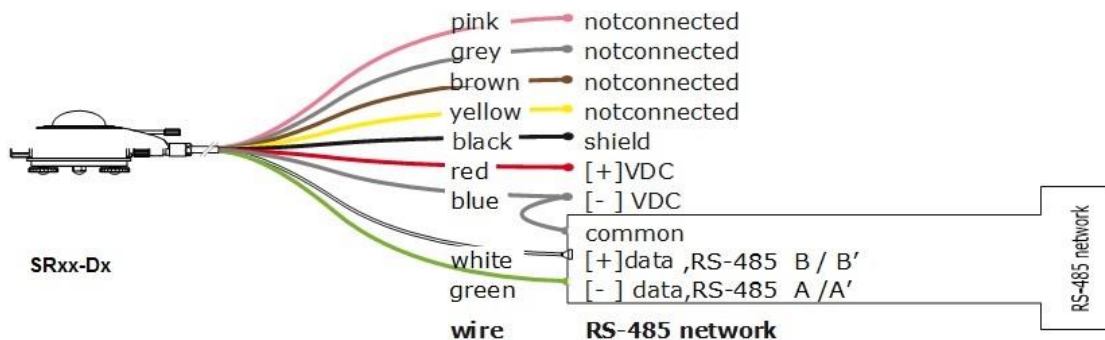
This note applies to SR20-D1, SR20-D2, SR22-D2, SR25-D1, SR25-D2 and SR30-D1 pyranometers.

The Hukseflux SRxx-Dx pyranometer must be connected properly to the specific grounding system in order to:

- avoid damage to the sensor;
- avoid noise in the signal;
- comply with Electromagnetic Compatibility (EMC) requirements.

This application note, written for the application of pyranometers in photovoltaic (PV) systems, describes the best practice for mounting and cable connecting.

**Cable connection must be as follows:**



**Figure 1.** proper cable connection to install a SRxx-Dx pyranometer

As depicted in Figure 1.1 the white and green wires are connected to the RS-485 network [+]data and [-]data respectively. The red and blue wires are connected with [+]VDC and [-]VDC from the power supply. Black is the cable shield, which shields the signal wires and is connected only among pyranometers body and the earth ground bar of Inaccess panel. The body of the pyranometer must be adjusted to the insulation disc and then the insulation disc should be fixed to the mounting platform.

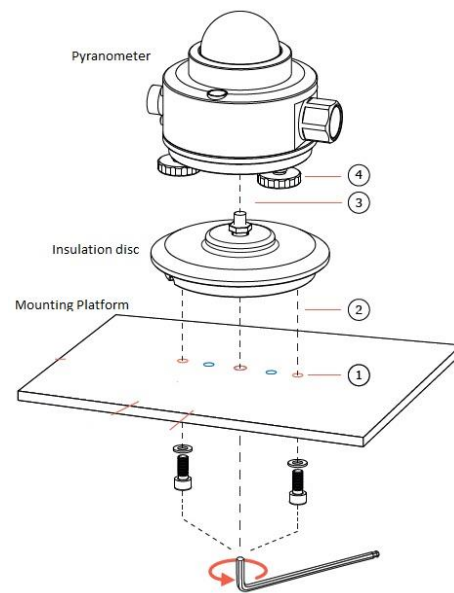


Figure.2. pyranometer example

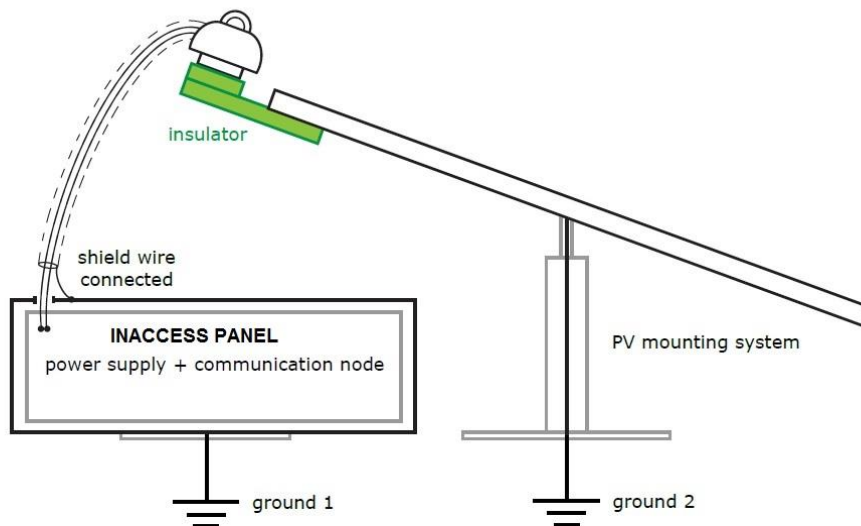


Figure 3. proper method to install a SRxx-Dx pyranometer