

MOUNTING ACCESSORIES

For Hukseflux pyranometers, pyrgeometers and net radiometers

Hukseflux offers a full range of practical brackets for mounting, levelling and electrically insulating pyranometers. They make installation and levelling easy. The most common ones are:

- *spring-loaded or ball pyranometer levelling; time saver for the OEM crew*
- *also available is a version that electrically insulates the pyranometer body from the mounting structure below it*
- *mounting brackets for vertical masts, for horizontal crossarms and for flat walls*
- *mounting fixtures to construct albedometers*



Figure 1 The most common pyranometer mounting accessories for Class A and B pyranometers.

Pyranometer levelling and electrical insulation

The most common way to mount a pyranometer is on a horizontal crossarm. For the Class A and B pyranometers SR300-D1, SR200-D1 and SR100-D1, there is a spring-loaded levelling and tube mounting solution. If these instruments must be electrically insulated from their mounting platform (recommended in case of long cabling for improved surge protection) there is the PID01 Insulation Disk. For the Class C model SR05 there is a ball levelling and tube mounting solution.

Unique features:

- small footprint: no accumulation of snow
- quick and easy spring-loaded levelling; no complicated bolts to unlock

See also:

- manual of [SR300-D1](#), [SR200-D1](#) and [SR100-D1](#) pyranometer
- manual of [SR05](#) pyranometer
- manual of [SR20](#) pyranometer
- brochure of [PID01](#) Pyranometer Insulation Disk

Table 1: Accessories for levelling and electrical insulation.

PYRANOMETER LEVELLING / ELECTRICAL INSULATION				
Part	Sensor compatibility	Function	May be combined with	Figure (see last page)
LM01 spring-loaded levelling mount	SR300, SR200, SR100, SR30, SR20, SR15, IR20	Practical mount for easy mounting, spring-loaded levelling, and instrument exchange on flat surfaces	TLM01, PMF01 and PFM02 mounting fixtures	1
TLM01 spring-loaded tube levelling mount	SR300, SR200, SR100, SR30, SR20, SR15, IR20	Connecting LM01 to a tube	LM01 is included	1
PID01 Pyranometer Insulation Disk	SR300, SR200, SR100, SR30, SR20, SR15	Electrically insulating disc for insulating the pyranometer housing from its mounting platform, spring-loaded levelling	PMF01 and PFM02 mounting fixtures	2
BL01 ball levelling	SR05	For levelling of SR05	PMF01 and PFM02 mounting fixtures	3
TMBL01 tube mount with ball levelling	SR05	For mounting BL01 and SR05 on a tube	BL01 is included	3
SF01 static feet, set of 3	SR300, SR200, SR100, SR30, SR15	For tilted installation of the instrument, for example in Plane of Array (POA), thermal insulation of the instrument from the mounting platform	PMF01 and PFM02	2
LF01 2 x adjustable levelling feet and 1 x static foot	SR300, SR200, SR100, SR30, SR15	For horizontal levelling of the instrument, thermal insulation of the instrument from the mounting platform	LM01, PID01, PMF01 and PFM02	2

Mounting fixtures

Hukseflux offers a range of practical pyranometer mounting fixtures. PMF series brackets allow for easy installation and levelling of Hukseflux pyranometers: on a vertical mast, a horizontal crossarm, a wall, a fence, in Plane of Array (POA) in single or dual setup, with ventilation unit or without. You name it!

- PMF01: for single pyranometers
- PMF01: for ventilated pyranometer with VMA01
- PMF02: for 2 pyranometers, one horizontal for Global Horizontal Irradiance (GHI) and one for Plane of Array (POA) irradiance
- spring-loaded bolts for easy levelling included

See also:

- brochure of [PMF01](#), [PFM02](#), [VMA01](#)

Table 2: *Accessories for mounting.*

PYRANOMETER MOUNTING FIXTURES				
Part	Sensor compatibility	Function	May be combined with	Figure (see last page)
PMF01 pyranometer mounting fixture	1 x SR300, SR200, SR100, SR30, SR20, SR15 SR05 SR05 with BL01 IR02, IR20	Mounting fixture for 1 pyranometer, horizontal or tilted (GHI or POA), level with spring- loaded bolt, optionally in combination with electrical insulation	PID01 , BL01, VMA01	8
PFM02 dual pyranometer mounting fixture	2 x SR300, SR200, SR100, SR30, SR20, SR15 SR05 with BL01, IR02, IR20	Mounting fixture for 2 pyranometers, 1 x horizontal (GHI) and 1 x tilted (POA), level with spring-loaded bolts, optionally in combination with electrical insulation	PID01 , BL01, Rose & Krieger clamps	4

Albedometer fixtures

Hukseflux offers a practical range of mounting and levelling fixtures to construct albedometers from its popular pyranometers and make installation and levelling easy.

Albedometer fixtures are easy to use. They allow the user to combine two separate pyranometers to create an albedometer. All that is needed are two mechanically compatible pyranometers and the kit.

A glare screen is also included. At solar elevations of $< 5^\circ$, (when the sun is just above the horizon), the glare screen prevents that direct solar radiation is measured by the downfacing sensor.

ALF01 is an optional levelling tool that can be used with albedometers to easily level the instrument. ALF01 is mounted on a crossarm, and can be rotated around the tube axis for 360° as well as tilted over $\pm 2^\circ$.

See also:

- brochure of [AMF02](#), [AMF03](#), [ALF01](#)

Table 3: Accessories for albedometers.

ALBEDOMETER FIXTURES				
Part	Sensor compatibility	Function	May be combined with	Figure (see last page)
AMF03 albedometer mounting fixture	2 x SR300, SR200, SR100, SR30, SR15	Combining an upward- and a downward-facing pyranometer, to construct an albedometer provide a rod and glare screen	ALF01 , CMF01 (with 1 inch pipe)	5
AMF02 albedometer mounting fixture	2 x SR20 IR20	Combining an upward- and a downward-facing pyranometer, to construct an albedometer provide a rod and glare screen	ALF01 , CMF01 (with 1 inch pipe)	7
ALF01 albedometer levelling tool	SRA albedometers	Albedometer levelling around the crossarm axis and for 2° tilt. Crossarm not included	AMF03 , AMF02 , CMF01 (with 1 inch pipe)	6, 7

Crossarm mounting

CMF01 is a practical mounting fixture for mounting a crossarm. The purpose of the crossarm is to mount radiometers on a mast.

See also:

- brochure of [CMF01](#)

Ventilator mounting

With the addition of VMA01, a VU01 ventilation unit can also be mounted on PMF01.

See also:

- [VMA01](#) in PMF brochure
- [VU01](#)

Table 4: *Miscellaneous accessories.*

CROSSARM FIXTURE / VENTILATOR MOUNTING				
Part	Sensor compatibility	Function	May be combined with	Figure (see last page)
CMF01 crossarm mounting fixture	NR01, RA01	Connection of a crossarm to a mast	AMF02 , AMF03 , ALF01	7
VMA01 ventilation mounting adapter	SR20 with VU01	To install pyranometers ventilated with VU01 on PMF01	PMF01	-

About Hukseflux

Hukseflux is the leading expert in measurement of energy transfer. We design and manufacture sensors and measuring systems that support the energy transition. We are market leaders in solar radiation and heat flux measurement. Customers are served through our headquarters in the Netherlands, and locally owned representative sales offices in the USA, Brazil, India, China, Southeast Asia and Japan.

Are you interested in these products?
E-mail us at: info@hukseflux.com



Figure 1 TLM01 Tube mount and spring loaded levelling (including LM01).



Figure 5 The SRA300-D1 is composed of one AMF03 and two SR300-D1 pyranometers.



Figure 2 The PID01 Pyranometer Insulation Disk. On the right, SR300-D1 mounted on a PID01. Also visible: one SF static foot and one LF levelling foot.



Figure 6 The ALF01 albedometer levelling tool.



Figure 3 The Class C model SR05 is smaller than the Class A and B pyranometers and has slightly different mounting and levelling. The optional ball levelling and tube mount, TMBL01 (including BL01), allow for easy installation, levelling and removal.



Figure 7 Installation of one AMF02 albedometer mounting kit and two SR20 pyranometers, mounted with one ALF01 levelling fixture on a crossarm with crossarm bracket CMF01.



Figure 4 Two SR200-D1 pyranometers on a PMF02 dual pyranometer mounting fixture, one tilted for Plane of Array (POA) measurement, and another mounted horizontally for Global Horizontal Irradiance (GHI) measurement.



Figure 8 SR30-M2-D1 mounted on a PMF01 pyranometer mounting fixture.