

HUKX

Sensor
Technology

Brochure
Crossarm mounting fixture

CMF01

CMF01

Crossarm mounting fixture

for pyranometers, albedometers, and net radiometers

We offer a full range of practical brackets for mounting atmospheric radiation sensors in all climates and weather conditions. CMF01 is a versatile fixture allowing mounting a crossarm onto a vertical mast. It is used with SR300-D1, SR200-D1, SR100-D1, SR30-M2-D1, SR15 series and SR05 pyranometers with their mounting fixtures. It can also be used with NR01 net radiometers, SRA series albedometers, and with PMF01.

CMF01 is a practical mounting fixture for mounting a crossarm. The purpose of the crossarm is to mount radiometers on a mast. The crossarm may serve to mount multiple instruments. The crossarm also creates some distance between the radiometer and the mast, so that the mast does not cast a shadow and does not reflect radiation onto the instrument. A typical distance between the radiometer and the mast is 1.5 m.

Most crossarms used in radiometry are mounted in the north-south direction so that the radiometer can be mounted towards the equator and a mast extending above the crossarm does not cast a shadow on the instrument.

Figure 1 CMF01 crossarm mounting fixture, shown with a crossarm mounted on a mast.



[simplified
mounting]

[easy
leveling]

In PV monitoring we also see crossarms oriented in the east-west direction to mount instruments for Global Horizontal Irradiance (GHI), Plane of Array Irradiance (POA), and Reflected Horizontal Irradiance (RHI).

Advantages

- quick installation
- strong mast-to-crossarm connection
- can carry multiple instruments

Suggested use

- meteorological observations
- PV monitoring

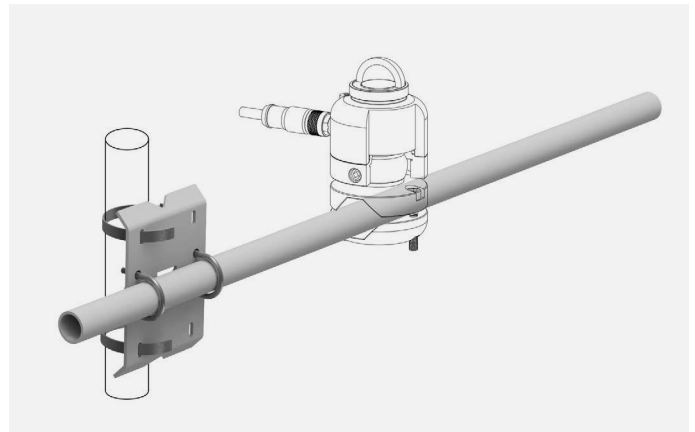


Figure 3 Easy-to-use instructions in CMF01's user manual.

CMF01 design

CMF01 is made of high-quality metals, allowing installations in all climates and weather conditions. It is delivered with U-bolts and tube clamps. The user should provide his own crossarm and instrument(s). The latter can be ordered separately at Hukx.



Figure 2 A crossarm can be used for easy installation of a pyranometer, in this case SR30-M2-D1, in Plane of Array, horizontal or inverted for PV system performance monitoring.



Figure 4 An albedometer being installed with its rod mounted securely to a mast thanks to ALF01 leveling fixture and CMF01 crossarm mounting fixture.

Complementary mounting options

There are other Hukx mounting options available for SR300-D1, SR200-D1, SR100-D1, SR30-M2-D1, SR15 series and SR05 pyranometers. They allow for simplified mounting, leveling, and instrument exchange on a flat surface or a tube, such as a crossarm. These mounts are optional with the purchase of these instruments. Alternatively, PMF01 and PMF02 brackets may be used for mounting any Hukx pyranometer on a mast, crossarm or other mounting platform.



Figure 5 Complementary mounting options.

See also

- [SR300-D1](#), [SR200-D1](#) and [SR100-D1](#) pyranometers
- [SR30-M2-D1](#) and [SR15](#) pyranometers with spring-loaded and tube leveling mount
- [SR05](#) Class C with ball leveling and tube mount
- [SRA300-D1](#) industrial Class A albedometer with heating and tilt sensor
- [SRA200-D1](#) industrial Class A albedometer
- [SRA100-D1](#) industrial Class B albedometer
- [SRA15 series](#) albedometers
- [ALF01](#) albedometer mounting fixture
- [NR01](#) net radiometer
- [PMF01](#) and [PMF02](#) pyranometer mounting fixtures
- view our complete [range of atmospheric radiation sensors](#)

CMF01 specifications

General specifications

mast compatibility

diameter
(40 to 65) x 10⁻³m

maximum weight on
CMF01 (at length of 1.5 m)

2.5 kg

crossarm compatibility

1 inch pipe
length < 1.5 m
(crossarm is not
included)

About Hukx

Hukx is the leading innovator in solar radiation and heat flux sensor technology. We are proud to set the standard in high-accuracy measurement, and to be working at the heart of the energy transition.

Customers worldwide rely on our bestselling pyranometers and heat flux sensors. From sensor design and selection to supply and recalibration, we support you across the entire lifecycle.

Hukx is headquartered in the Netherlands, with locally owned representative sales offices in the USA, Brazil, India, China, Southeast Asia, and Japan.

Let us help you select the best sensor for your application.
Get in touch with our experts today via: info@hukx.com

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