

DP01

Dome Protector for SR15 and SR30 pyranometers

DP01 protects the dome of the pyranometer during transport, installation and removal. Its purpose is to reduce the risk of accidental damage to the pyranometer domes. Our service records show that replacement of scratched and broken domes are a significant contributor to the total cost of ownership. Protecting the pyranometer dome reduces costs and increases measurement accuracy and reliability.



Figure 1 SR30 with DP01 dome protector.

Introduction

Damaged domes are a significant cause of pyranometer malfunction. DP01 protects the dome and

- mitigates the risk of damage to the pyranometer dome
- improves data availability
- reduces unnecessary repair costs

Demanding applications

We recommend to use DP01 during initial transport and installation at the measurement site. After that DP01 can be stored. It is used again, typically every 2 years, when the pyranometer is removed and sent to an external laboratory for calibration.

Operation

Using DP01 is easy. The protector is mounted with a double snap fit connection to the pyranometer. To remove the DP01 press both sides of the protector, see figure 2.

We recommend to keep DP01 on the pyranometer whenever the dome could potentially make contact with a hard object. Please do not forget to remove DP01 before you start measuring.

Figure 2 Removal of sunscreen and DP01.



DP01 design

The DP01 is specially designed for SR15 and SR30 pyranometers. To keep the DP01 and the sunscreen together during transport, the sunscreen can be installed on top of the DP01. Check if DP01 is installed correctly by pulling it gently, before installing the sunscreen on top.



Figure 3 *Pyranometer model SR30, with DP01.*



Figure 4 *Pyranometer model SR30, with DP01 and sunscreen.*

Suggested use

- with pyranometer models SR15 and SR30
- for transport, make sure the pyranometer of which the DP01 is covering the dome is surrounded by shock absorbing packaging

DP01 specifications

Function	mitigates risk of damage to pyranometer domes improves data availability reduces unnecessary repair costs
Ordering	"DP01 set of 5" in bag containing 5 pieces DP01
Included in	pyranometer models SR15, SR30 supplied from 01 APR 2023
Compatibility	pyranometer models SR15, SR30
Protection level	for transport, make sure the pyranometer of which the DP01 covering its dome is surrounded by shock absorbing packaging
Material	ABS
Rated operating temperature range	-20 to +80 °C

Ordering

- **DP01 set of 5 pieces**

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. Hukseflux products and services are offered worldwide via our office in Delft, the Netherlands and local distributors.

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