



- ✓ natural ventilation of the sensors
- ✓ improved lamellar system
- ✓ suitable protection against direct and indirect radiation
- ✓ protection against weather influences
- ✓ simple mounting on pipes

## Function and description

Sensor shelters are used to protect temperature and humidity measuring instruments against unmeant influences of the weather when effecting measurements in the open air.

Thus, the determined results of measurement are independent of precipitation and their evaporation as well as of direct and indirect radiation.

The measuring results are safe and will be comparable.

Constructionally sensor shelters are in such a way arranged that the data acquisition area of the installed sensor are located in the middle of the shelter.

Additionally the three upper lamellae are closed for thermal insulation purpose. Thus optimal measuring conditions are ensured.

The plastic lamellae are arranged in a defined distance, one above the other. By the special lamella design the protection of the sensor against unmeant influences is extremely effective.

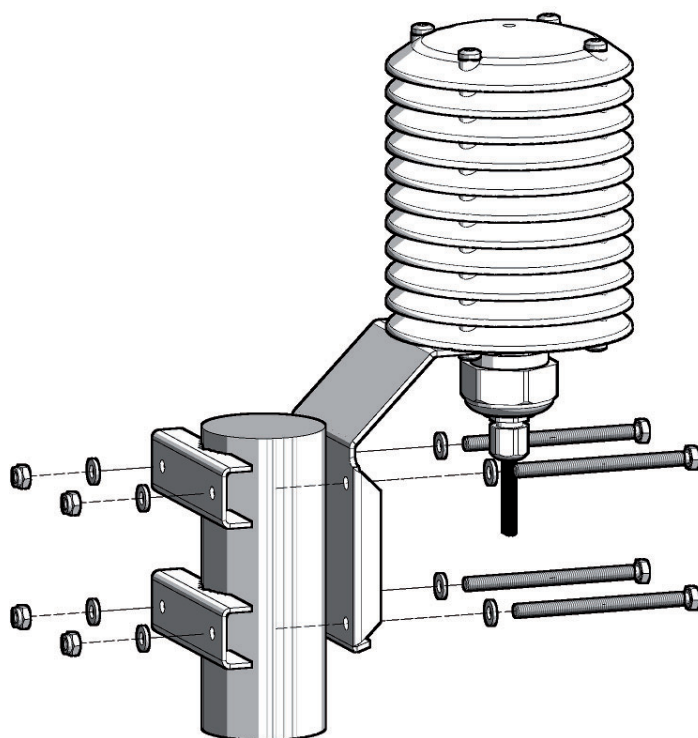
For improvement of ventilation the lowest lamella has a bigger inner diameter of 73 mm. Furthermore the holder at this place has special tapers and openings which optimise the ventilation and prevent fluid retentions.

The sensors are placed from below into the opening of the shelter and fixed by a clamping screw.

The clamp screw is placed inside the weather shelter which causes a significantly improved stability of the complete shelter (incl. sensor).

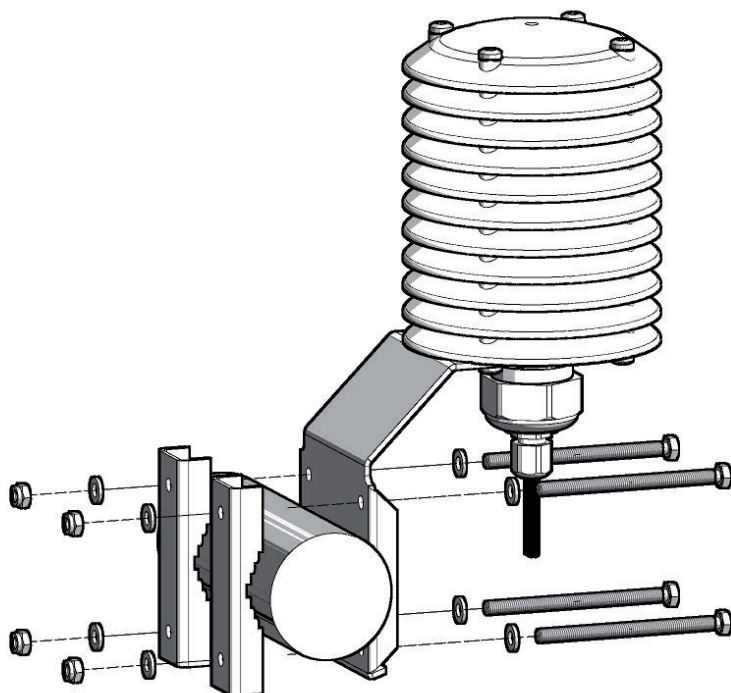
The sensor shelters can be installed on vertical and horizontal masts or tubes.

## Installation of the shelter at a vertical mast or tube



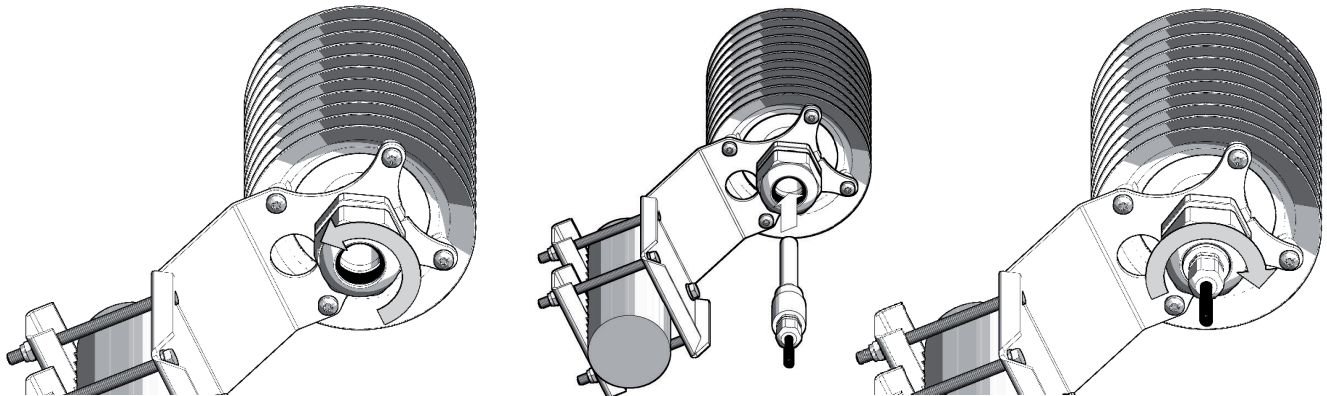
Needed tools:  
2 x wrench SW 10

## Installation of the shelter at a horizontal mast or tube



Needed tools:  
2 x wrench SW 10

## Installation of the sensor in the shelter



## Cleaning of the sensor shelter

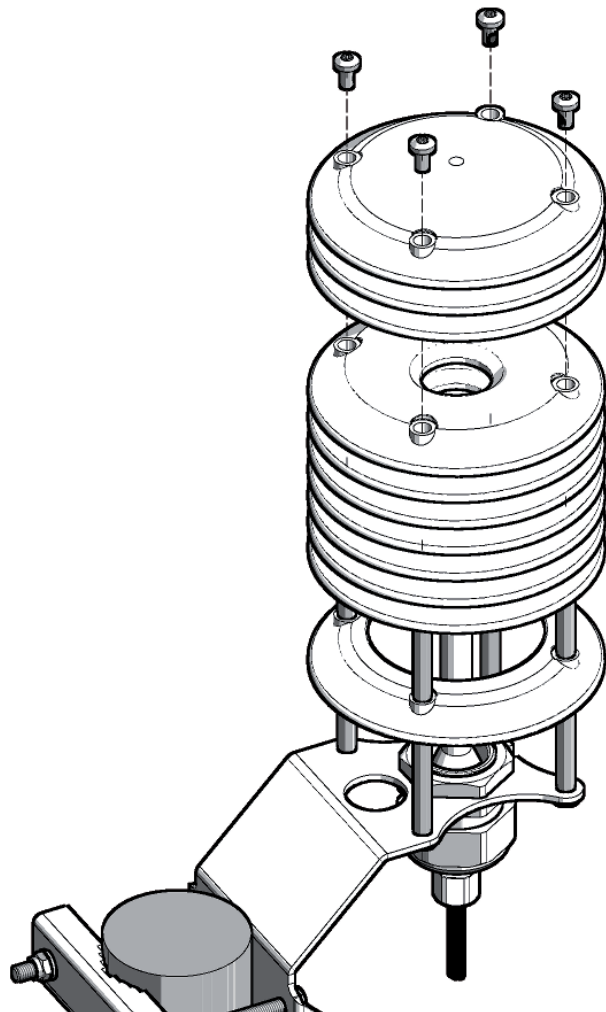
The cleaning of the shelter is very easy. It can be done with common household detergents.

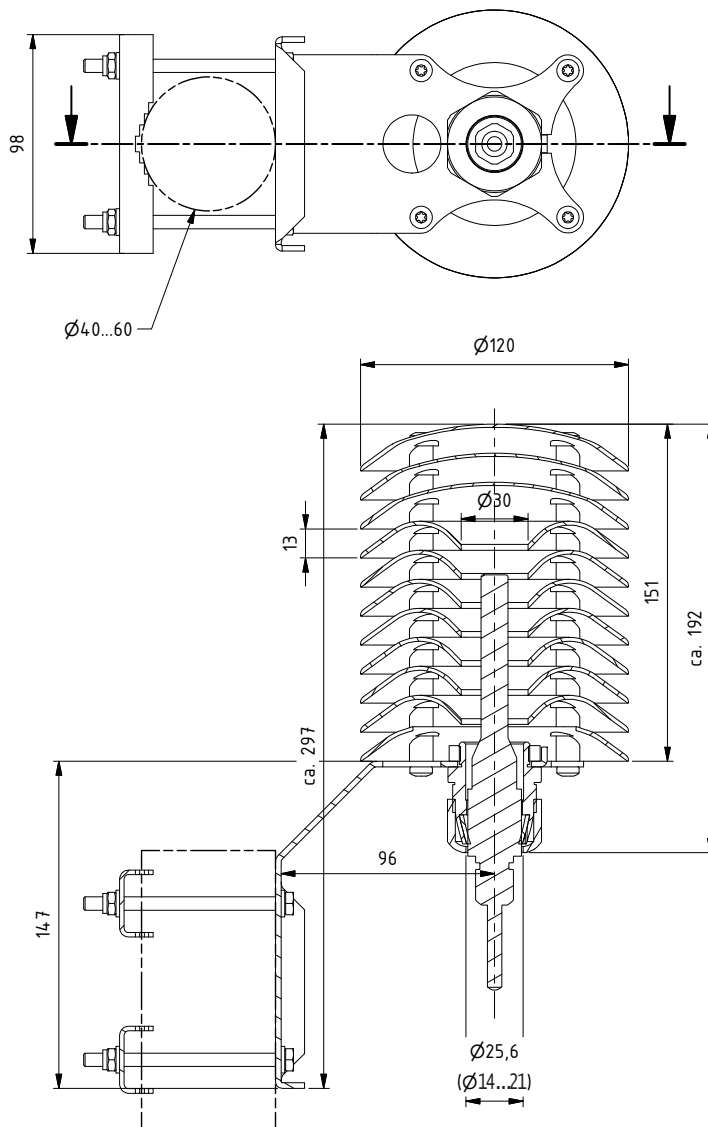
The shelter can be disassembled for this procedure. For this the 4 upper screws just need to be unscrewed and the lamellas need to be pulled up. The lamellas can be cleaned with a wet cloth. After cleaning the lamellas will be slipped onto the 4 pillars and fixed with 4 screws.



**Note:** We recommend securing the screws with locking varnish or something similar after loosening them once.

Furthermore it is possible to clean the shelter (without sensor) in a standard dishwasher. Due to our experiences the hydrophobic features of the plastic surface will be strengthened after the shelter was cleaned inside a dishwasher.





Please note the loss that unauthorised manipulation of the system shall result in the loss of warranty and non-liability. Changes to system components require express written permission from LAMBRECHT meteo GmbH. These activities must be performed by a qualified technician.

### The warranty does not cover:

1. Mechanical damage caused by external impacts (e.g. icefall, rockfall, vandalism).
2. Impacts or damage caused by over-voltage or electromagnetic fields which are beyond the standards and specifications of the device.
3. Damage caused by improper handling, e. g. by using the wrong tools, incorrect installation, incorrect electrical installation (incorrect polarity) etc.
4. Damage caused by using the device outside the specified operation conditions.

	(8141.62) Sensor Shelter	Id-No. 00.08141.620000
Range of application:	-50...+80 °C	
Amount of lamellas:	11 (3 lamellas closed, 7 lamellas normal, 1 lamella with 73 mm diameter opening)	
Dimensions:	diameter = 120 mm, height = approx. 297 mm (incl. holder)	
for mast diameter:	40...60 mm	
Screwing for sensor Ø:	14...21 mm	
Weight:	< 535 g without holder (weight of the holder: < 545 g)	
Material:	lamellas made of UV resistant plastic material, UL flammability rating HB holder made of V4A stainless steel, white powder-coated RAL 9003	
<u>Further accessories:</u> (please order separately)	Screwing for sensor Ø 10...15 mm · screwing for sensor Ø 18...25 mm · adapter for sensor diameter 5 mm	

Subject to change without notice.

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