

## **WEATHER SHELTERS (STEVENSON SCREENS) OF THE SERIES WS**

**144.0E**

The construction of this series of weather shelters is based on customers' needs for different sizes and applications. The segment construction makes it possible to offer the weather shelter in different widths, depths, and heights. This type of weather shelter offers sufficient space for thermometers and psychrometers, mechanical recording instruments like thermographs, hygrographs, thermo-hygrographs or meteographs as well electrical sensors and data loggers for measurement of different parameters. It protects the equipment from damage caused by precipitation like rain, hail and snow. The core task is the elimination of radiation effects due to direct solar radiation as well as negative influences of wind, which would directly affect the meteorological measuring instruments without the weather shelter.



The double lamella structure of all four side walls guarantees good air circulation inside the shelter through all-sided passive ventilation. The outer lamellas are made of white weather-resistant and UV-resistant plastic, which best reflect impacting radiation. The inner lamellas, on the other hand, are black, which has proven to be the best measuring environment in studies. The slats are arranged overlapping, so that air can ventilate the weather shelter, but no direct sun radiation can penetrate. The slats are surrounded by a stable powder-coated aluminium profile frame, which is mounted with UV-resistant plastic connectors.



The double floor of the weather shelter, like the roof, offers ventilation without direct radiation incidence and is designed in such a way that animals cannot use the shelter as a nesting opportunity. The upper roof is slanted, so that impacting rainwater can easily run backwards without damaging the sensors. The two roofs, as well as the two floors, are made of white, radiation-reflecting UV-resistant PVC panels for small shelters like WS-1 or aluminium resp. stainless steel for middle sized and large sized shelters. The door, which can be opened sideways with two hinges, allows user-friendly handling, and can be secured to the clamping lock with a small lock (optionally available).

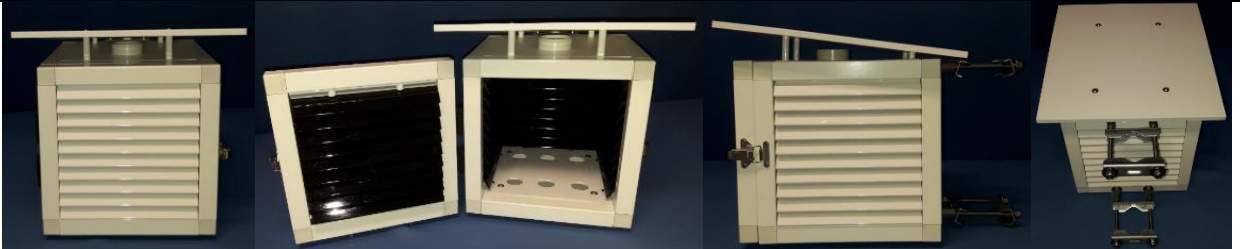
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The economical small sized shelters WS-1 and WS-1-50 are specially created for installation of electronic sensors and centuple used at agricultural weather stations, educational institutions and for ecologies. This kind of weather shelter is equipped as standard with two toothed galvanized mast clamps, so that the shelter can be easily attached on free-standing poles or the appropriately available mounting rod in telescopic design (WS-1-H1). In general, the attachment is possible by using the attached stainless steel thread rods with the mast clamps on rods up to 60 mm in diameter.






The measurement of temperature and humidity with this equipment is usually carried out at a height of two metres, with installation in such a way that the lower floor of the free-standing weather hut is at a height of two metres.

The middle-sized shelter WS-2/1-50 is used for installation of thermometers and psychrometer August type. They could be fixed on masts or bars.

For the middle and deeper sized shelter WS-2/2-50 which is used for installation of psychrometers or single recording instruments as well as the large weather shelter WS-4/2-50 for installation of recording instruments like thermographs, hygrographs, thermo-hygrographs, freestanding frames are available to install the shelter in the correct observation height. Furthermore, stairs with three steps and handrail are deliverable. These made of powder-coated or galvanized steel with cross bar.

Art. No.	description	exterior dimensions in cm			interior dimensions in cm			weight in kg
		width with / without roof	depth with / without roof	height with / without roof	width	depth	height	
<b>WS-1 (small)</b>	for Installation of electronic sensors	24,5 / 30	27 / 32	24,5 / 31	17	18	20	5.3
								
<b>WS-1-50 (small + hight)</b>	for installation of electronic sensors like thermo-hygro-sensors, datalogger or vertical thermometers	24,5 / 30	27 / 32	55 / 61	17	18	50	7
<b>WS-2/1-50 (middle)</b>	for installation of psychrometers, with maximum and minimum thermometers	46,5 / 49	27 / 32	55 / 61	39	18	50	15
<b>WS-2/2-50 (middle + deep)</b>	for installation of psychrometers, minimum or maximum thermometers, recording instruments like hygrograph or pumps	46,5 / 52	49 / 54	55 / 61	39	40	50	30

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		width with / without roof	depth with / without roof	height with / without roof	width	depth	height	
								
<b>WS-4/2-50 (large)</b>	for installation of large recording instruments like thermographs, hygrographs, thermo-hygrographs	93 / 116	50 / 72	61 / 71	86	41	50	42
								
<b>WS-1-H1</b>	free-standing poles (mounting rod) in telescopic design for installation of small weather shelters							
<b>WS-2/2-STAND</b>	Frame for middle weather shelter WS-2/2 made of powder-coated or galvanized steel with cross bars							
<b>WS-4/2-STAND</b>	Frame for weather shelter WS-4/2 made of powder-coated or galvanized steel with cross bars							
<b>WS-STAIRS</b>	freestanding stairs (3 pcs) for use together with the weather shelter, with handrail, it can be taken apart for transport							

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