

UGT COMPACT WEATHER STATION

The UGT Compact Weather Station is a cost-effective alternative to the standard model and is available with either a fixed mast or a portable tripod. Thanks to its compact design and light weight, it is easy to transport. Power is supplied by an integrated solar panel with a backup battery.

As a coordinated system, the Compact Weather Station provides access to a preconfigured, secure online service from the data management system of our partner SVADSS. Optionally, the measurement data from the integrated data logger can be accessed online, visualized, or downloaded as a CSV file.



VARIANTS

- **Mast mounting:** Compact design for permanent installation and long-term monitoring
- **Tripod with an extension arm:** Rain gauge on the extension arm, backup battery in the control cabinet, portable
- **Tripod with separate rain gauge mast:** Flexible positioning of the rain gauge thanks to a separate rain gauge mast, Backup battery in an external battery case, portable

SENSORS

- Wind speed
- Wind direction
- Humidity
- Air temperature
- Global radiation
- Rain gauge
- Optional: Soil moisture and temperature



TECHNICAL DATA (TYPICAL CONFIGURATION)

PARAMETER	MAST (STATIONARY)	TRIPOD WITH EXTENSION ARM (MOBIL)	TRIPOD (MOBIL)
Dimensions	140 x 100 x 200 cm		Adjustable; the tripod should be set up 1 m wide
	The anemometer should be placed at a height of 2 m, and the rain gauge at a height of 1 m.		
Weight	~35 kg		~25 kg
Housing	Protection Class IP68		
WIND SPEED SENSOR			
Measurement range	0 ... 50 m/s		
Measurement accuracy	±3 %		
WIND DIRECTION SENSOR			
Measurement range	0° ... 359°		
Resolution	ca. 0.4°		
Measurement Accuracy	± 2 %		
HUMIDITY SENSOR			
Measurement range	0 ... 100 % rF		
Measurement accuracy	±3.5 % rH		
AIR TEMPERATURE SENSOR			
Measurement range	-40 ... 60 °C		
Measurement accuracy	±0.5 °C		
GLOBAL RADIATION SENSOR			
Measurement range	0 ... 2000 W/m²		
Sensitivity	20 mV pro 1000 W/m²		
Measurement accuracy	7 %		
RAIN GAUGE			
Funnel Collection Area	214 cm²		
Water volume per pulse	4.28 ml		
Tipping tray	calibrated to metric standards (0.2 mm)		
Measurement accuracy	± 3 %		
Poisiton	separately	on extension arm	separately
UGT-DATA LOGGER			
Measurement interval	10 seconds to 4 hours; statistics can be aggregated		
SOLAR POWER SUPPLY			
Solar panel	30 W		
Backup battery	12 V / 36 Ah		
Backup battery position	control cabinet		separately