

## Datasheet Weather Station GPS



### Weather station with integrated GPS receiver

- Integrated bracket for wall or mast mounting
- **Brightness measurement** – with three separate sensors for East, South and West. Twilight detection with special filters
- **Wind measurement** – Wind speed measured electronically and thus silently and reliably, even with hail, snow and freezing temperatures
- **Temperature measurement**
- **Heated precipitation sensor (1.2W)** – No false measurement in case of dew or fog, dries quickly after precipitation
- **Integrated GPS receiver** – Output of UTC (coordinated universal time), position (longitude, latitude) and position of the sun (azimuth, elevation)

Technical data:	
Power supply	Sallegra Bus
Operating voltage	24 V DC
Current	max. 120 mA, residual ripple 10%
Cable cross-section	Solid conductor up to 0.8 mm <sup>2</sup>
Data output	Sallegra Bus
Heating precipitation sensor	approx. 1.2 W
Temperature	
Measurement range	-40 °C - +80 °C
Resolution	0.1 °C
Accuracy	± 1.5 °C at -25 °C to +80 °C
Wind	
Measurement range	0...35 m/s
Resolution	0.1 m/s
Accuracy	At ambient temperature -20 °C to +50 °C: ± 22% of measured value for inflows of 45...315° ± 15% of measured value for inflows of 90...270° (frontal inflow corresponds to 180°)
Brightness	
Measurement range	0...99.000 lux
Resolution	1 Lux bei 0...120 Lux 2 Lux bei 121...1.046 Lux 63 Lux bei 1.047...52.363 Lux 423 Lux bei 52.364...99.000Lux
Environment conditons	
Operating temperature	-30 °C to +50 °C
Storage temperature	-30 °C to +70 °C
Type of protection	IP44
Montage/Abmessung/Gewicht	
On-wall	96 x 77 x 118 mm (W x H x D) / approx. 160 g

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\* Warranty ex works, normally 24 months, fixed at order. Information is current as of the date of publication. Subject to errors and modifications. / NOTE: Internal connections refer to connections inside the unit, generally mounted across a pin-header. External connections refer to those outside the box. Once mounted, only connections described as "front accessible" can be accessed by the customer.