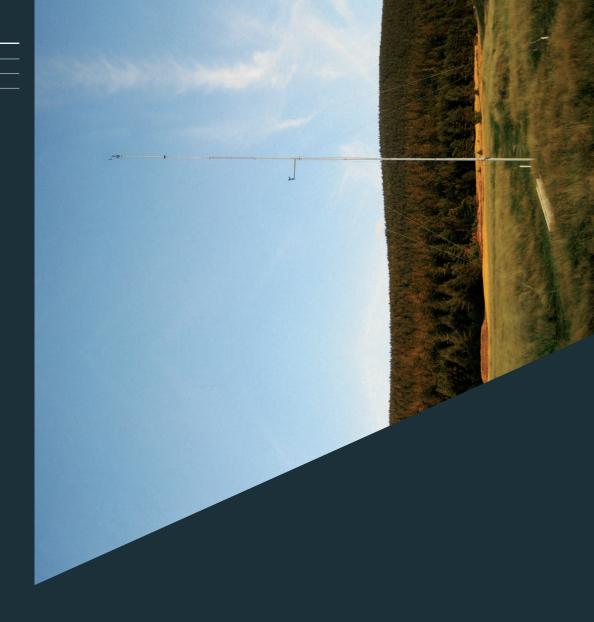
Technical Data of the aeolog measurement system

— Version 3





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About the aeolog measurement system

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aeolog 3 Data Sheet

Data logger	— fig.01	
sensor – connections	2 — anemometer	temperature sensor
	1 — wind direction vane	
readings	frequency distribution of wind speed (1 m/s classes)	
	frequency distribution, average and maximum wind speed in 16 wind directions sectors	
	current, min., max., average wind speed, turbulence intensity, wind direction,	
	temperature and solar irradiation	
	time & date	
data-storage	internal storage and SD-card (included)	
	recording of 1-, 10- or 15-minute averages, minimum, maximum value, 10s, 5s	
	and standard deviation of wind speed	
	1-year-storage (10 minute intervals)	
	data permanently saved every 60 minutes	
control element	single button	
power supply	solar photovoltaic cell and accumulator	
case	80x120x58 mm ³	protection class: IP 44
temperature	-10 50°C	
Meteorological sensors — fig.02	Measurement of solar irradiation via optional sensor	
combined wind sensor	0.5 40 m/s	-30 +60°C temperature free of ice
	0.5 m/s or 5% accuracy	protection class: IP 54
	2,5 357° direction	
anemometer fig.03	data as above	
Telescopic towers	10 m tower	15 m tower (cf. large photo)
	retracted length: 1,34 m	retracted length: 2,0 m
	extended length: 10,0 m	extended length: 15,0 m
	tube diameter: 70/65/60//40/35/30 mm	tube diameter: 70/65/60//40/35/30 mm



Data logger

Sensors

fig.01





Data Sheet

tower weight: 8,0 kg

3 ground anchors

l guy wire ring, made of galvanized steel

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tower weight: 16,0 kg

3 ground anchors

2 guy wire rings, made of galvanized steel

aeolog is a wind and solar monitoring system used to collect data for the design of small wind power or wind-solar-hybrid power systems. The aeolog consists of a data logger, up to two anemometers, one wind vane and a sensor for temperature installed on a 10 or 15 m tower. Energy supply of the data logger is realised by using an integrated photovoltaic cell.

Solar radiation measurement is optional. Compactly packed into a wooden box the aeolog can be dispatched economically by common parcel services and put up within 45 min.



fig.0

fig.02