



Technical Data of the aeolog
measurement system

— Version 3



INENSUS

aeolog^③ Data Sheet



About the aeolog measurement system

— Version 3

The data logger needs solar irradiation to operate. In case of insufficient solar irradiation for several days the data logger stops recording data. The specification of the aeolog system is subject to change without notice.

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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 mm³	protection class: IP 44
temperature	-10 ... 50°C	
Meteorological sensors	Measurement of solar irradiation via optional sensor	
— fig.02		
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	data as above	
— fig.03		
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
	material: anodized aluminium	material: anodized aluminium
	tower weight: 8,0 kg	tower weight: 16,0 kg
	1 guy wire ring, made of galvanized steel	2 guy wire rings, made of galvanized steel
	3 ground anchors	3 ground anchors



fig.01



fig.02



fig.03

aeolog
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Data Sheet

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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.