

aeolog data sheet



The **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 and solar measurements are realised using an integrated photovoltaic cell. Compactly packed into a wooden box the **aeolog** can be dispatched economically by common parcel services and put up within 45 min.

Specifications of the **aeolog** data logger system



Data logger

Sensor connections	<ul style="list-style-type: none"> 2 anemometers 1 wind direction vane Temperature sensor
Readings	<ul style="list-style-type: none"> 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, wind direction, temperature and solar irradiation time & date
Data storage	<ul style="list-style-type: none"> SD-card (included) recording of 10 minute averages, minimum and maximum value of wind speed 1 year of data storage data permanently saved every 60 minutes
Control element	<ul style="list-style-type: none"> single button
Power supply	<ul style="list-style-type: none"> solar photovoltaic cell and NiMh accumulator
Case	<ul style="list-style-type: none"> 82x82x90 mm³ protection class: IP 44

Meteorological sensors

	Combined wind sensor <ul style="list-style-type: none"> 0.5 ... 40 m/s ±0.5 m/s or ±5 % accuracy 2,5 ... 357° direction -30 ... +60°C temperature free of ice protection class: IP 54
	Anemometer <ul style="list-style-type: none"> data as above
Measurement of solar irradiation utilizing the integrated solar photovoltaic cell <ul style="list-style-type: none"> measuring range 0...1000 W/m² (± 5 %) 	

Telescopic towers

10 m tower	<ul style="list-style-type: none"> Retracted length: 1,34 m Extended length: 10,0 m Tube diameter: 70/65/60/... /40/35/30 mm Material: anodized aluminium Tower weight: 8,0 kg One guy wire ring, guy wires made of galvanized steel Three ground anchors
15 m tower (cf. large photo)	<ul style="list-style-type: none"> Retracted length: 2,0 m Extended length: 15,0 m Tube diameter: 70/65/60/... /40/35/30 mm Material: anodized aluminium Tower weight: 16,0 kg Two guy wire rings, guy wires made of galvanized steel Three ground anchors