

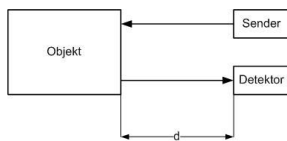
ROME G M 20 G – Data sheet

ROME G M 20 G is a laser device for measuring the rotor geometry of wind turbines. The measurement is carried out with the turbine in operation.

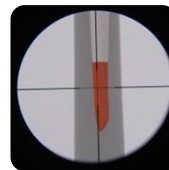
Functionality

The measuring principle of the laser distance sensors is an optical measuring procedure relying on the principle of "time of flight" measurement.

Principle of "Time of flight" measurement:



ROME G M 20 G is suited for measuring wind turbines up to a nacelle height of 200m from the ground without reflectors.



ROME G M 20 G

The picture shows a sample system. Delivery can vary from above image.

Delivery components

- 2 pcs Laser sensors with inclination sensors and targeting devices
- 2 pcs Adjustment and Alignment Units
- 1 pc Tripod with gear tray
- 1 pc Evaluation unit with power pack and cable set
- 2 pcs Hard protective case, water-tight and floatable



Technical data*

Measuring laser:	Laser class 1
Energy supply:	Li-Ion / 14.40V / 6600mAh / 95.0Wh
Operating time:	4 hours
Type of protection:	IP64
Temperature range:	-5° to +30°C
Max. nacelle height**:	up to 200m
Measuring distance**:	up to 300m
Measuring angle:	10° to 45°
Total weight:	ca. 45 kg

Measurement parameter

Relative pitch angle:	+/- 0.2°
Radiale Teilung:	+/- 0.2°
Tower clearance:	+/- 50mm
Twist angle:	+/- 0.4°
Axial tower oscillation:	+/- 10mm

*The measuring process is an optical process. Local light conditions may have a negative impact on measuring ranges.

** at 20°C, 1013,25 hPa, 5500 K, dry

windcomp GmbH			
Schulstrasse 19	D- 73666 Baltmannsweiler	Telefon 07153 557 304	Mail: info@windcomp.de www.windcomp.de
We reserve the right to changes without further notification.			
File name	Data sheet ROME G M 10 G	Created on	March 21, 2015
Number of pages	1	© 2015 windcomp GmbH	Version 001/2015