

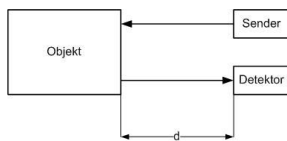
ROME G M 10 G – Data sheet

ROME G M 10 G is a laser device for measuring the rotor geometry of wind turbines. The measurement is carried out with the turbine in operation.

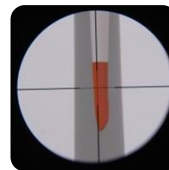
Functionality

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 10 G is suited for measuring wind turbines up to a nacelle height of 100m from the ground without reflectors.



ROME G M 10 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
Laser pointer	Laser class 2
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 100m
Measuring distance**:	up to 200m
Measuring angle:	10° to 45°
Total weight:	ca. 42 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

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