



## 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.

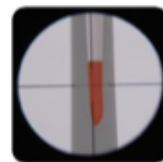
### Functionality

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

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