

Instruction for Use

021798/06/17

North Ring

508094, 508696, 509219, 509619, 509744, 509928

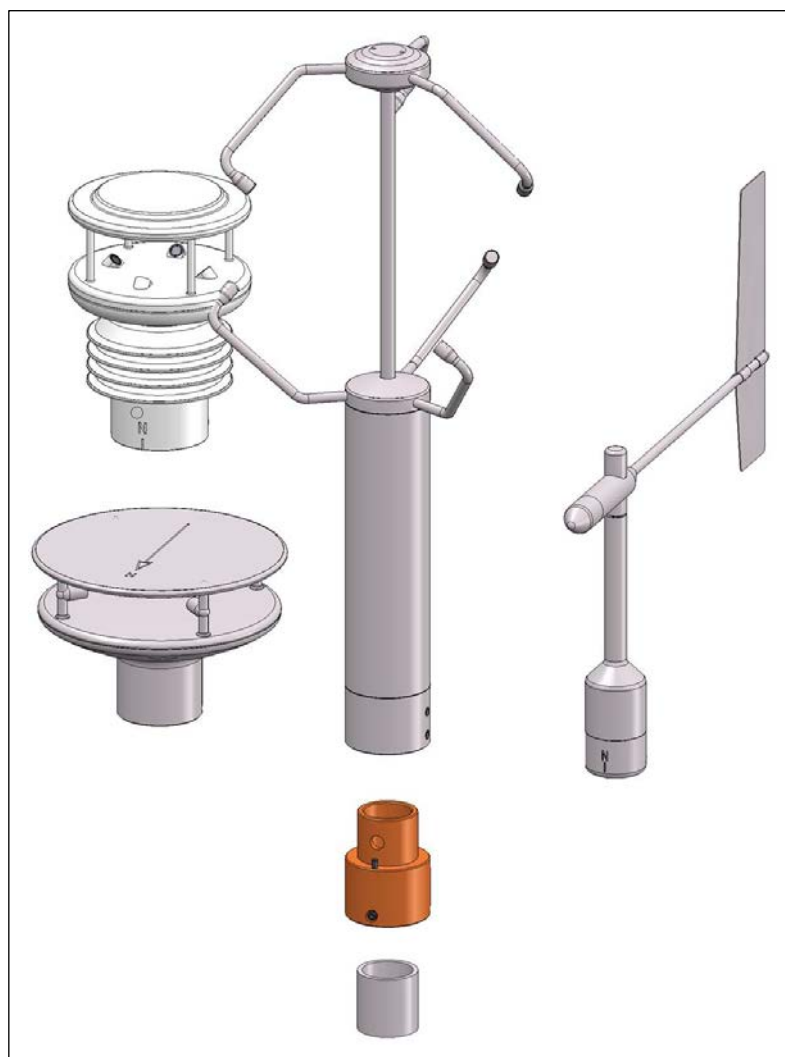


Fig.: North ring with sensor examples

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Safety Instructions

- Before operating with or at the device / product, read through the operating instructions. This manual contains instructions which should be followed on mounting.
A non-observance might cause:
 - failure of important functions
 - endangerment of persons
 - damage to objects
- Mounting of the device / product must be carried out only by a qualified technician who is familiar with and observes the engineering regulations, provisions and standards applicable in each case.
- Repairs and maintenance may only be carried out by trained staff or **Adolf Thies GmbH & Co. KG**. Only components and spare parts supplied and/or recommended by **Adolf Thies GmbH & Co. KG** should be used for repairs.
- **Adolf Thies GmbH & Co KG** guarantees proper functioning of the device / products provided that no modifications have been made to the device / product, and that the following points are observed:
- All information, warnings and instructions for use included in these operating instructions must be taken into account and observed as this is essential to ensure trouble-free operation and a safe condition of the device / product.
- The device / product is designed for a specific application as described in these operating instructions.
- The device / product should be operated with the accessories and consumables supplied and/or recommended by **Adolf Thies GmbH & Co KG**.

Environment

- Make sure you retain packaging for storage or transport of products. Should packaging however no longer be required, please arrange for recycling as the packaging materials are designed to be recycled.



Documentation

- © Copyright **Adolf Thies GmbH & Co KG**, Göttingen / Germany
- Although these operating instruction have been drawn up with due care, **Adolf Thies GmbH & Co KG** can accept no liability whatsoever for any technical and typographical errors or omissions in this document that might remain.
- We can accept no liability whatsoever for any losses arising from the information contained in this document.
- Subject to modification in terms of content.
- The device / product should not be passed on without the/these operating instructions.

Attention

- In handling of substances / mixtures the respective Material Safety Data Sheets (MSDS) are observed.

Contents

1	Models available	3
2	Application	3
3	Mounting	4
4	Technical Data, Dimension	5
5	Maintenance	6

1 Models available

Article - No.	Description	Diameter for mast	Diameter for sensor	suitable for sensor
508094	NORTH RING ALU-ANO.	50MM	50MM	2), 3)
508696	NORTH RING ALU-ANO. BORE HOLE 360°	50MM	50MM	2), 3)
509219	NORTH RING ALU-ANO. BORE HOLE 360°	34MM	50MM	2), 3)
509619	NORTH RING ALU-ANO, FIRST-CLASS-WD	34MM	34MM	1)
509744	NORTH RING V2A	50MM	50MM	2), 3)
509928	NORTH RING ALU-ANO. CUS	34MM	50MM	4)

- | | |
|--|--------------------------------|
| 1) Wind direction transmitter if the types „First Class“ | (4.3151.xx.xxx). |
| 2) US anemometer 2D, 3D | (4.382x.xx.xxx, 4383x.xx.xxx). |
| 3) US anemometer 2D compact | (4.3875.xx.xxx). |
| 4) Clima Sensor US | (4.92xx.00.000) |

2 Application

The „north ring“ serves as alignment aid, and for the easy change/replacement without re-adjustment of the northern direction of wind transmitters and US anemometers.

Construction / Equipment:

The north ring is consisting of:

- Support, with different diameters for adapting sensors, and masts, tube etc.
- Nord pin, for fixing the sensor.
- Bearing tube, north determination.
- Screws for fastening on mast, tube etc.

Depending on the model the north ring is made of aluminum or stainless steel.

The upper part serves as support for the sensor.

The lower part serves for fastening on a mast, tube etc.

The north ring is fixed at 360°/0° (north).

Remark:

In the lower edge of the wind direction transmitter- / US anemometer base there is a **north bore hole**, generally aligned to the north marking. Sensors without bore hole cannot be mounted by means of a „north ring“.

3 Mounting

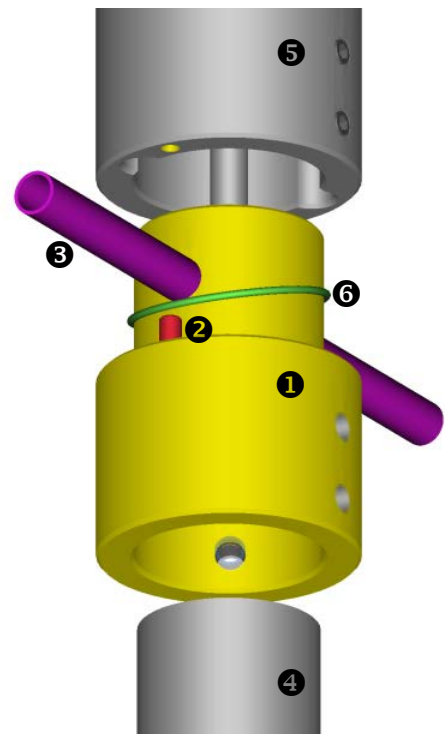
For the exact determination of the wind direction the wind direction transmitter /US anemometer must be mounted, generally, aligned **to north** (geographical north). The respective instructions for the north alignment are described each in the manuals of the wind direction transmitter/US anemometer.

The mounting or resp. the alignment by means of the „north ring“ is described in this instruction for use.

North alignment by means of the north ring:

Procedure:

1. Remove the north ring ❶ from the packing.
2. Put the included bearing tube ❸ (if not yet mounted) through the horizontal bore hole of the north ring and secure it by the O-ring ❹.
3. Mount the complete north ring ❶ loosely and still rotatable onto the measurement mast ❷.
4. The north pin ❸ of the north ring must point in northward direction.
5. Fix a point (tree, building, hill etc.) in the landscape in northern direction by means of a compass.
6. Locate the fixed point (building, tree, hill etc.) by means of the bearing tube.
7. Fix the north ring safely on the measurement mast by means of the screws.
8. Remove the bearing tube and the O-ring.
9. Push the sensor cable/plug through mast and north ring.
10. In doing so, please take care that the sensor cable/plug does not slip into the mast.
11. Put the sensor cable / plug at the sensor.
12. Put the wind direction transmitter / US anemometer ❺ with the north bore hole onto the north pin of the north ring, and screw it safely.

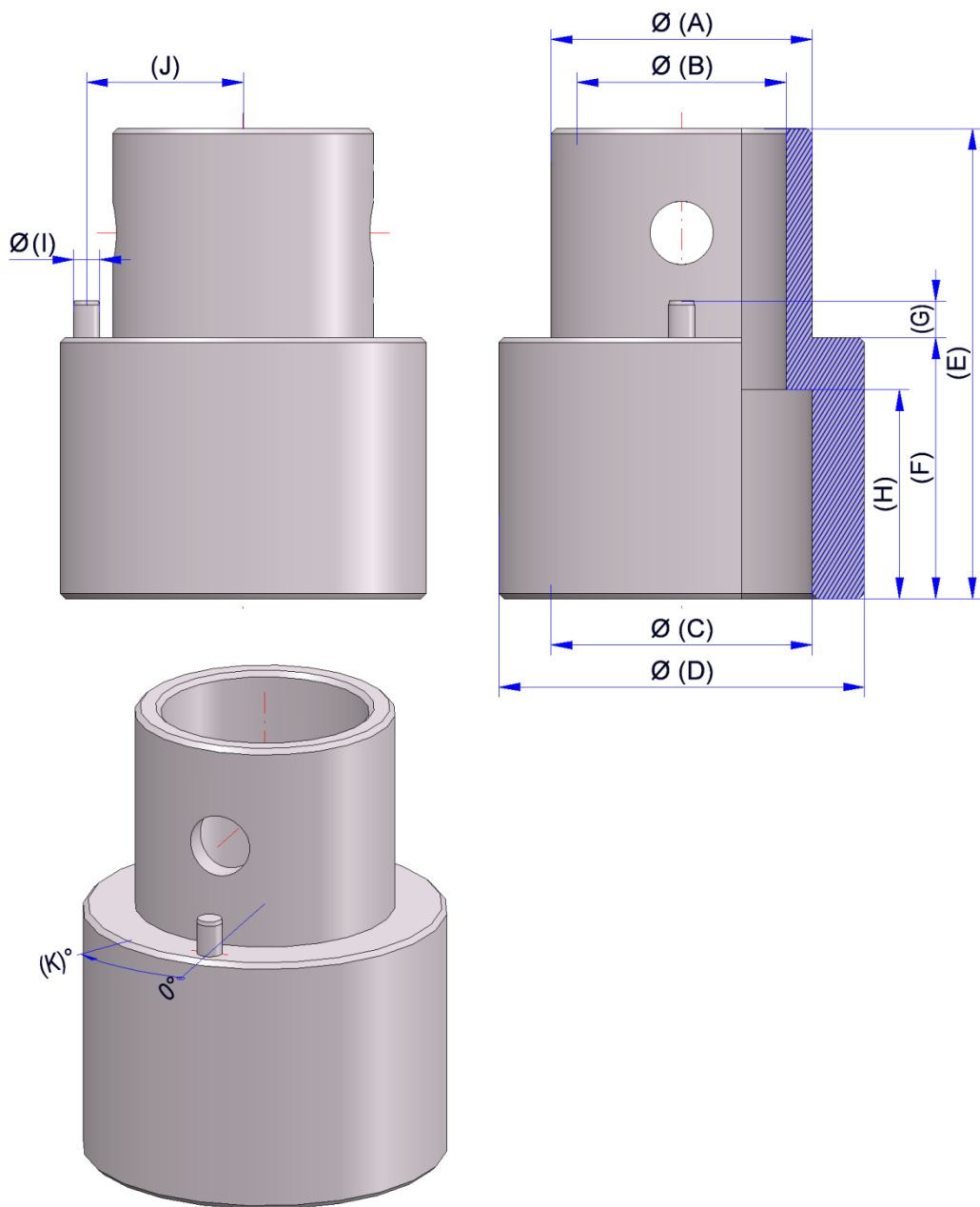


Remark:

- With the north alignment by means of a compass please consider the local deviation (= deviation of the direction of a compass needle from the true north direction) and disturbing magnetic fields on-site (e.g. iron parts, electric lines).
- Depending on the local circumstances and situations the a/m mounting procedure must be adapted.

4 Technical Data, Dimension

Article-No.	Material	Weight [kg]	Dimension [mm]									
			A	B	C	D	E	F	G	H	I	J
508094	Alu, anodized (AlMgSi1)	0,4	50,5	40	51	70	90	50	7	40	5	30
508696	Alu, anodized (AlMgSi1)	0,4	50,5	40	51	69	90	50	7	40	5	30
509219	Alu, anodized (AlMgSi1)	0,6	50,5	28	35	69	90	50	7	40	5	30
509619	Alu, anodized (AlMgSi1)	0,25	34,5	23	35	50	75	50	7	40	3	20
509744	V2A (1.4305)	1,0	50,5	40	51	70	90	50	7	40	5	30
509928	Alu, anodized (AlMgSi1)	0,6	50	28	35	79	70	42	7	40	5	32,5



5 Maintenance

During maintenance work please check if the north ring is firmly attached by its screws.

Cleaning

For cleaning the north ring please use a moist cloth without chemical cleaning agents.



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