Telescopic Mast

Instruction for use **4.3179.00.000**
4.3180.00.000
4.3181.00.000

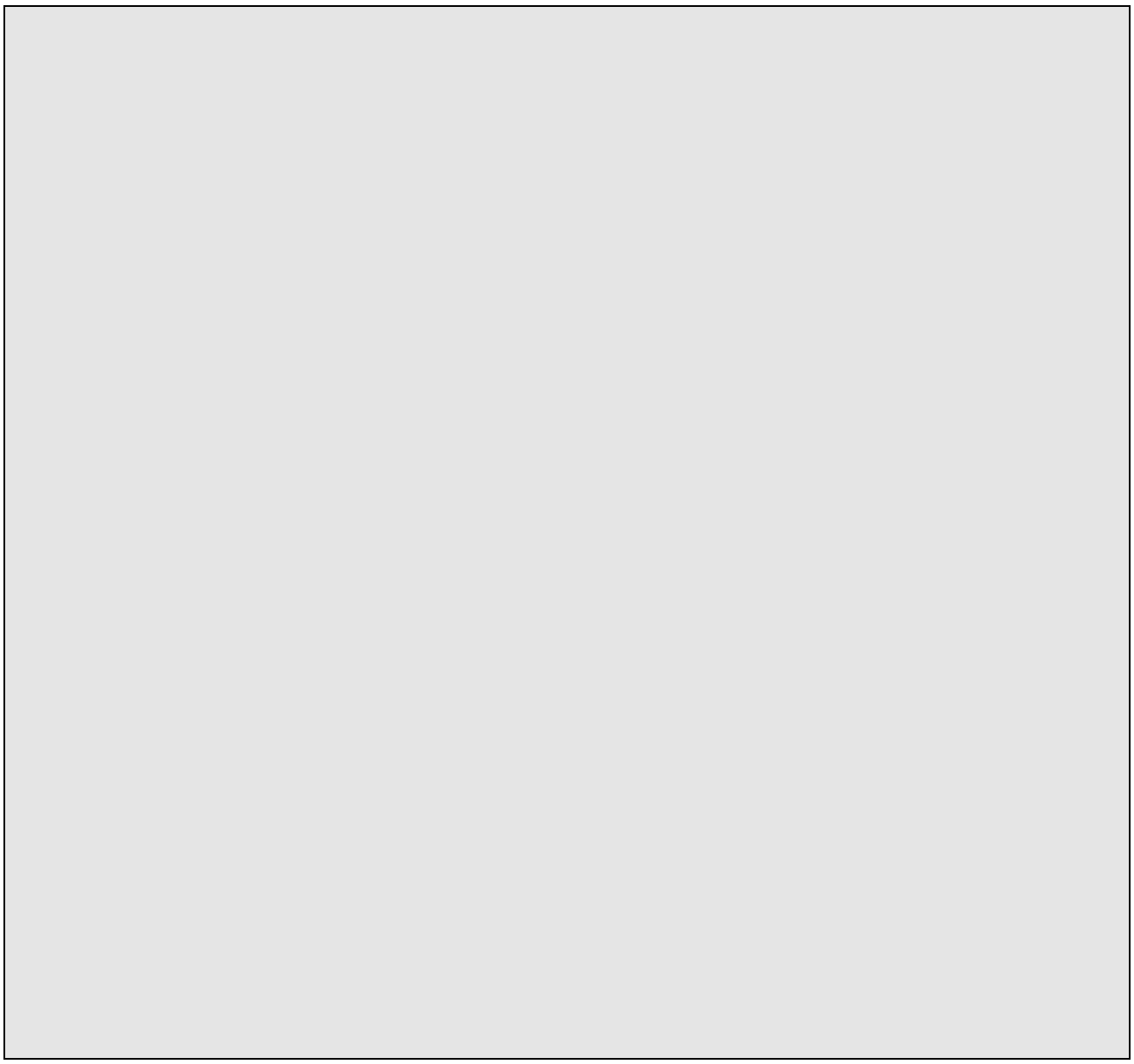


Table of contents

1. Range of Application

The telescopic mast is used to mount data transmitters (wind transmitters, hygro-thermo-transmitters etc.) It is extensible and consists of seawater-proof aluminium tubes.
When properly installed the telescopic mast can be used in wind velocities of up to 60 m/s (see point 4 of "Preparation for use").
In addition, the mast must be equipped with a lightning rod (Order-no. 4.3100.99.000) and a grounding set (Order-no. 4.3186.00.000) in order to protect both employees and the data transmitters from lightning.
The surface of the mounting site must be firm enough to allow the pegs to be inserted properly.

2. Complete list of parts included in the shipment

1 Telescopic mast

Order-no.	4.3179.00.000	4.3180.00.000	4.3181.00.000
length	4 m	6 m	10 m

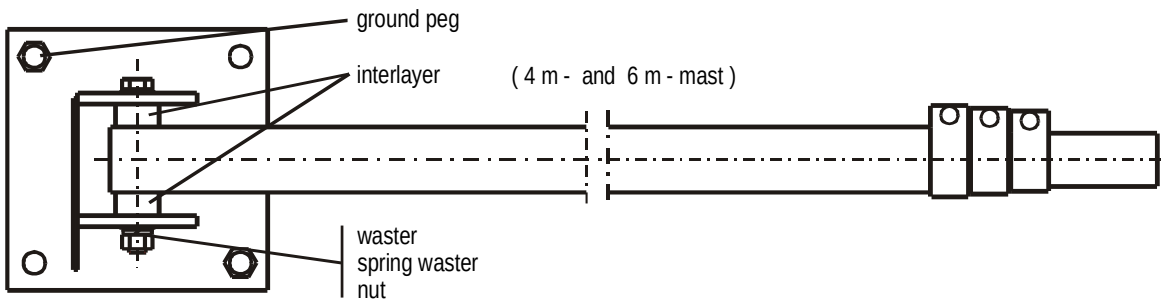
1 Base plate
2 Ground pegs
1 resp. 2 bracings, complete
3 resp. 6 pegs
1 Hollow wrench (hexagonal)

3. Technical data

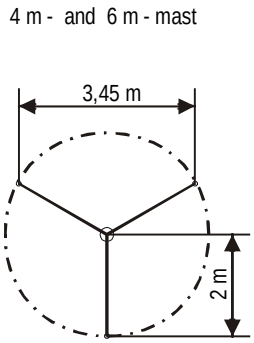
Material	:	Aluminium, seawater-proof
Tip of mast	:	Ø49 mm
Single tube length	:	1,5 m
Bracing	:	3-fold (4 m, 6 m)
		6-fold (10 m)
Wind load	:	max. 60 m/s
Weight	:	21 kg (4 m)
		29 kg (6 m)
		44 kg (10 m)

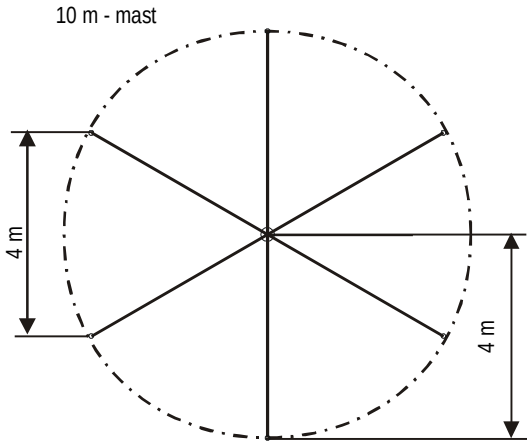
4. Preparation for Use

Anchor the ground plate into the ground with the two ground pegs. Place the foot of the mast into the holder on the ground plate. Push the cable through the mast, making sure that the plug is not damaged in this process.
Insert a cross bolt through the lower boring of the ground plate and the mast and screw it into place.

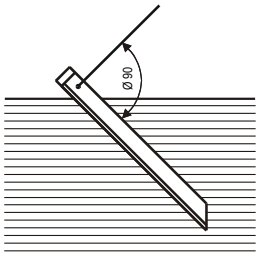


Three herrings (tent pegs) are required for the 4m and 6m mast, six for the 10m mast. Insert the herrings into the ground at an angle.





There should be a 90° angle between the herring and the anchoring line. The anchoring point of the line should not be more than 5 cm above the ground.



Extending the telescope mast to its full length:
Unscrew the uppermost clamp and pull the innermost tube out till the second milled edge. Now tighten the clamp a bit (The second milled edge is the maximum clamping point, in the interest of stability, do not pull the tube out any further than this point). Pull the additional tubes out in the same way. When this has been completed, tighten all the clamps well!

Connect the data transmitter with the cable plug and attach it to the mast as described in the operating instructions. Please note the alignment for data transmitters which are dependent on direction.

Mount the lightning rod directly beneath the data transmitter. Attach the anchoring ring directly beneath the lightning rod. For the 10m mast, mount the second anchoring ring at a height of 6m.

Now slowly raise the mast with the aid of an assistant.. Be careful not to damage the cable. Mount the second cross bolt onto the ground plate and screw both bolts securely into place.
Attach the anchoring line to the herrings and span them uniformly. Insert the ground plate into the ground - 0,5 m from the mast and connect it to the mast with copper wire.

Example of the telescopic mast with a foundation:

View from above

Mast length	Length „A“	Length „B“
4 m	2 m	3,45 m
6 m	2 m	3,45 m
10 m	4 m	6,90 m

ADOLF THIES GmbH & Co. KG

Hauptstraße 76 37083 Göttingen Germany
P.O. Box 3536 + 3541 37025 Göttingen
Phone +49 551 79001-0 Fax +49 551 79001-65
www.thiesclima.com info@thiesclima.com