

## General Information about Order Processing

As of January 19<sup>th</sup> 2022 (subject to change)

### General Information:

- The Ammonit Wind Tunnel GmbH (AWT) is accredited / accepted since 2017 by DAkkS and MEASNET for the calibration of flow sensors (e.g. cup anemometers, propeller anemometers and ultrasonic anemometers) according to / 1 / and / 2 / and since 2018 for the calibration of flow direction sensors (e.g. wind vanes) according to /1/. The flow velocity is calibrated with a best measurement capability of 0.05 m/s and the flow direction of 0.8°.
- If no information about the mounting tube is specified by the client when the order is placed, the calibration is performed with a standard mounting tube of the AWT for this type of anemometer.
- AWT is offering maintenance for anemometers of type Thies First Class and Vector A100 and Young Propeller 08254. After receipt of anemometer already used, a state detection takes place in each case, which represents the basis for the maintenance recommendation. A repair of the sensor heating is not offered. The maintenance of wind vane is currently not offered.
- Processing is subject to the timely delivery of spare parts, within 10 working days. Express processing is possible and in any case to be agreed with the AWT.
- A handling fee is charged for each order and transfer / delivery of the sensors. A discount of calibrations over several orders and delivery dates is possible.

### Prices:

- DAkkD / MEASNET - Calibration of cup anemometer (in brackets Thies First Class Advanced X without and with storage of the calibration values in the memory of the sensor and second calibration after storage)
 

1 ... 9 Calibrations per order and sensor delivery lot	150 Euro per sensor (160 / 315 Euro)
10 ... 29 Calibrations per order and sensor delivery lot	128 Euro per sensor (138 / 273 Euro)
30 ... 89 Calibrations per order and sensor delivery lot	105 Euro per sensor (115 / 235 Euro)

 (from the 90th calibration we grant an individual discount considering the number of sensors and the processing time)
- DAkkD / MEASNET - Calibration of cup propeller anemometer (2 directions)
 

1 ... 9 Calibrations per order and sensor delivery lot	270 Euro per sensor
10 ... 29 Calibrations per order and sensor delivery lot	230 Euro per sensor
- Calibration of ultrasonic anemometers (2D, velocity and direction)
 

1 ... 9 Calibrations per order and sensor delivery lot	299 Euro per sensor
10 ... 29 Calibrations per order and sensor delivery lot	258 Euro per sensor
- Calibration of ultrasonic anemometers (3D, velocity, direction and tilt)
 

1 ... 9 Calibrations per order and sensor delivery lot	448 Euro per sensor
10 ... 29 Calibrations per order and sensor delivery lot	386 Euro per sensor
- Calibration of wind vane (direction)
 

1 ... 9 Calibrations per order and sensor delivery lot	160 Euro per sensor
10 ... 29 Calibrations per order and sensor delivery lot	138 Euro per sensor
- Maintenance of anemometers of Thies CLIMA and Windspeed Limited (Vector Instruments)
 

Change of bearing, Thies first class 4.335x.xx.xxx <sup>*1</sup>	46 Euro per Anemometer
Change of cups, Thies first class 4.335x.xx.xxx	110 Euro per sensor
Change of measurement board, Thies first class 4.335x.xx.xxx <sup>*1</sup>	115 Euro per Anemometer
Change of bearing, Vector A100	110 Euro per sensor
Change of cups, Vector A100	205 Euro per sensor
Change of propeller, Young 08254 (CFT/20)	90 Euro per sensor
- Further costs
 

Handling fee	40 Euro per order and sensor delivery lot
Transport costs and transport insurance	if managed by AWT, according to costs alternatively it can be managed by the customer
- Express calibration:
 

within 5 working days	+ 15%
within 1 working day	+ 30%

<sup>\*1</sup> not Thies first class advanced X

### Standards:

- /1/ INTERNATIONAL ELECTROTECHNICAL COMMISSION (IEC) : IEC 61400-12-1 Ed.2.0 Wind turbines-Part 12-1: Power performance measurement of electricity producing wind turbines, 2017
- /2/ NETWORK OF EUROPEAN MEASURING INSTITUTE (MEASNET) : Anemometer Calibration Procedure. Version 3 December 2020. Madrid (ES) : MEASNET, 2020