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## To whom it may concern

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ProfEC Ventus is DAkkS accredited as  
Testing Laboratory and as Calibration Laboratory.  
Accreditation scopes are specified in the Annex to deed D-PL-19142-01-00 and D-K-19142-01-00. MEASNET Member.

## Ref.: Press Release

ProfEC Ventus becomes member of international Measuring Network of Wind Energy Institutes

Specialist for accredited wind measuring technology meets highest quality requirements

Oldenburg. 27. July 2016. One cannot achieve more. This June, ProfEC Ventus GmbH became member of **MEASNET**, an international Measuring Network of Wind Energy Institutes. This means that on an international scale, the accredited testing and calibration laboratory meets the highest requirements for the calibration of anemometers as well as the increasing requirements from the market. These sensors are important instruments for wind measurements and reliable energy yield prognoses of wind farm projects.

After one year of intensive work ProfEC Ventus has successfully completed all stages and obtained the coveted membership. The Expert Board of Measuring Network of Wind Energy Institutes (MEASNET) decides who is admitted as a member. Some of the most renowned international measurement institutes are represented as member in the network, which lays down the most rigorous requirements for a variety of measurements in the area of wind energy. "Being admitted to the network is a great honour to us. This confirms that we are able to understand, capture and evaluate the behaviour of wind sensors," says Mathias Hölzer, Managing Director of ProfEC Ventus. Our highly precise calibration of the devices reduces uncertainties of wind measurements at the sites of planned wind farms. In order to become admitted to the network, the calibration laboratory had to answer profound questions, develop analysing procedures and provide evidence. "For this, a detailed preparation beforehand had not always been possible," remarks Mr. Hölzer.

ProfEC Ventus is an independent, accredited wind energy consulting company acting as testing and calibration laboratory. It works according to the most recent norms, standards, guidelines and regulations of the International Electrical Commission (these also include the shortly published IEC FDIS 61400-12-1 Ed.2 08-2016), and has been accredited by the German Accreditation Body (DAkkS) according to ISO/IEC 17025. This is a mandatory prerequisite for companies to be admitted as a MEASNET member. "The network determines

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even higher requirements for calibration laboratories. Thus we emphasize the quality of our work and promote our customers' trust in our work," says Mr. Hölzer. The portfolio of the Oldenburg-based experts also comprises accredited wind energy consulting services performed as testing laboratory, such as measurements and verifying of wind turbine power performance curves; Wind Resource and Energy Yield Assessments (including FGW TR6 Rev.9 compliance); Installation and Evaluation of Wind Measurements as well as Site Classification of Wind Turbines.

Operating on an international scale, the company is specialized in wind measurements for wind farms being developed and existing ones. It supplies necessary sensors and measurement systems, but also turnkey delivers worldwide completely equipped wind measurement masts at heights of up to 160 meters. The wind sensors are calibrated in a wind tunnel and then furnished with a MEASNET calibration certificate. This procedure has become necessary because anemometers (like wind vanes) measure within tolerances specified by the manufacturer when capturing the wind data. For this reason, the sensor behaviours are compared to the measurements of a reference device under pre-defined calibration conditions in a wind tunnel. This procedure ensures that the devices deliver usable and reproducible data.

It does make sense to apply calibrated measurement technology, as data from the measurement campaigns on site of a scheduled wind farm project, most of them lasting for one year, must be as precise as possible. They form the basis for wind and energy yield prognoses and often also for investment decisions involving millions of Euros. For this reason, tolerance-related variances in measuring have considerable consequences, as they lead to mistakes in evaluating the actual wind availability and may therefore affect the overall economic performance of a wind park. Often such measurements cannot be used for financing by banks, or only in a limited way. The energy yields forecasted for a concrete wind park result from the measurements on site and historic weather data, the sources of which must be valid and verifiable. "By aid of our calibrated measurement equipment we make sure that any uncertainties during measurement campaigns remain as low as possible. This has a positive impact on the financing and the required capital structure. Thus, there is a growing demand for calibrated sensors in the market, furnished with the MEASNET quality seal," concludes Mr. Hölzer.

Publication and reprint free of charge; it is politely requested that a specimen copy be sent to ProfEC Ventus GmbH.

Should you have any queries or if you need further information, please do not hesitate to contact us:

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**Accreditations as Calibration Laboratory (D-K-19142-01-00):**

**1 Velocity of gases:**

IEC 61400-12-1 ED.1: Wind turbines- Part 12-1: Power performance measurements of  
2005 electricity producing wind turbines  
CDV IEC 61400-12-1 Wind turbines- Part 12-1: Power performance measurements of  
ED.2:July 2015 electricity producing wind turbines  
MEASNET Version 2 Cup Anemometer Calibration Procedure  
2009-10

**2 Direction of flow:**

CDV IEC 61400-12-1 Wind turbines- Part 12-1: Power performance measurements of  
ED.2:July 2015 electricity producing wind turbines

**Accreditations as Testing Laboratory (D-PL-19142-01-00):**

**1 Measurement of Wind Turbine Power Performance:**

IEC 61400-12 Wind turbine generator systems- Part 12: Wind turbine power  
1999-07 performance testing  
IEC 61400-12-1 Wind turbines- Part 12-1: Power performance measurements of  
2005-08 electricity producing wind turbines  
IEC 61400-12-2 Wind turbines - Part 12-2: Power performance of electricity  
2013-03 producing wind turbines based on nacelle anemometry  
FGW TR 2, Rev. 16 Determination of Power Performance and Standardised Energy  
2010-01 Yields  
QM\_TPI-02 Power Performance Measurement  
2014-09  
with reference to:

IEC 61400- Ed. 2: Wind turbines generator systems - Part 1:  
1 Safety requirements (withdrawn standard)  
1999-02  
IEC 61400- Ed. 3: Wind turbines - Part 1: Design requirements  
1  
2005-08  
IEC 61400- Wind turbines - Part 2: Design requirements for  
2 small wind turbines  
2006-02  
EEG German Renewable Energy Act 2014 (EEG 2014}  
2014-07  
MEASNET Power Performance Measurement Procedure  
Version 5  
2009-12

**2 Wind Resource and Energy Yield Assessment of Wind Turbines and Wind Farms:**

FGW TR 6, Rev. 9 Determination of Wind Potential and Energy Yields  
2014-09  
QM\_TPI-01 Wind Resource Assessment and Energy Yield Assessment  
2014-09  
with reference to:

MEASNET Evaluation of Site Specific Wind Conditions  
Version 1

2009-11

### **3 Installation and Evaluation of Wind Measurements with Anemometers:**

IEC 61400-12-1 Wind turbines- Part 12-1: Power performance measurements of  
2005-08 electricity producing wind turbines

FGW TR6 6, Rev. 9 Determination of Wind Potential and Energy Yields

2014-09

QM\_TPI-03 Measurement Installation

2014-09

with reference to:

MEASNET Evaluation of Site Specific Wind Conditions  
Version 1  
2009-11

### **4 Site Classification of Wind Turbines:**

QM\_TPI-04 Site Classification

2014-09

with reference to:

IEC 61400-1 Ed. 2: Wind turbines generator systems - Part 1:  
Safety requirements (withdrawn standard)

1999-02

IEC 61400-1 Ed. 3: Wind turbines - Part 1: Design requirements

2005-08

IEC 61400-2 Wind turbines - Part 2: Design requirements for  
small wind turbines

2006-02