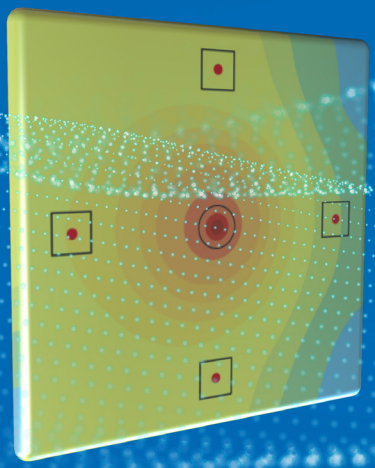


speediflow®

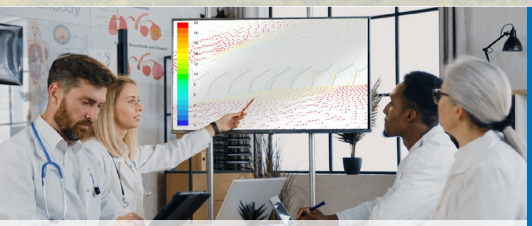
INNOVATIVE TECHNOLOGY FOR
MEASURING PARTICLE-CHARGED FLOWS

real sensor dimensions

crosswind detection
at vehicles

air flaps control for
chaff distribution

wind dependent control
of the fertilizer application

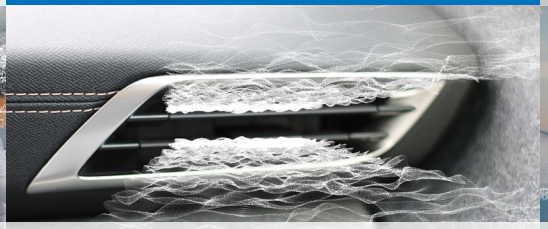


new measurement methods
in research and development

measurement in extreme ambient conditions

supply- and exhaust air control
in different sectors of industy

cooling rooms
free of draught



air conditioning
of vehicle cabins

alignment optimization
of rotor blades

ELECTRONICS FOR COMMERCIAL- AND SPECIAL VEHICLES

miunske

Speed direction flow

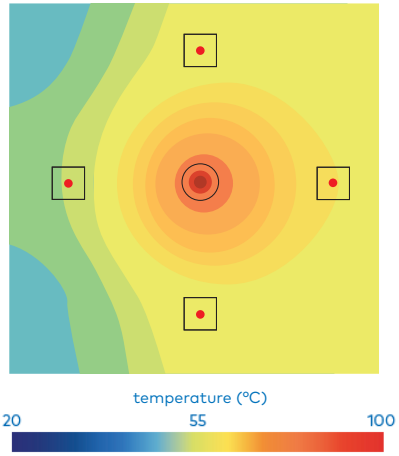
speediflow®

measuring, evaluate & optimize

The air flow sensor speediflow relies on a new sensor technology and enables measuring under extreme environmental conditions as well as in locations where measuring only was possible with a lot of effort or totally excluded. Follow the maxim “measuring under extremes” the sensor speediflow allows to open up new fields of application e.g. in the fields of agricultural systems engineering, of environmental and air technology, of air-conditioning technology as well as in the field of wind and energy technology.

operating principle

speediflow® for the first time allows the non invasive measurement of the air-flow vector based on the temperature distribution at the surface of a small ceramic plate. This is inserted into the flow flush with the wall, e.g. via outer walls or specially designed carrier housings. The measurement can be done without problems in particle-charged flows, up to the measurement as well as in the material flow. Due to the limited availability of flow measurement technology up to now only the value of the flow velocity has been measured. On the one hand, this method can lead to misinterpretations and on the other hand, it significantly limits the applicability for control circuits and automation. speediflow® instead provides the flow vector that enables the complete description of the flow field. Based on this operating principle speediflow is an important and completely new tool in the field of research and development as well as an essential sensor for the control of flow variables in e.g. harvesting machines.



BENEFITS

- measuring of flow direction and velocity
- measuring of particle-charged air-flows
- various fields of application
- resistent sensor
- small dimensions
- flush installation with the wall

speediflow is a joint project

TECHNISCHE UNIVERSITÄT DRESDEN

miunske

powered by:

Bundesministerium für Wirtschaft und Klimaschutz

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