MicroProbe

Measurement of the airflow-distribution through a radiator



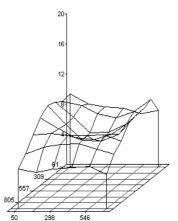
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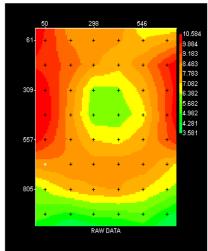
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Up to 48 Pitot-Static Probes mounted inside the Radiator Matrix

- Measures correct, even in oblique flows
- Front face of radiator untouched
- Probe protrudes only 3 mm out of rear face of radiator
- Fan (push and pull) remains operative
- · Measurement in a running vehicle
- Good accuracy
- Excellent reproducibility
- Usable in a normal (very dense) vehicle environment
- Automatic data logging of all important parameters
- Reliable data transfer over greater distances
- The result plot is available immediately after each measurement







A MicroProbe with a 2 Euro coin

Coolingsystem Development

The **MicroProbe** system is valuable in the development of complete vehicle coolingsystems.

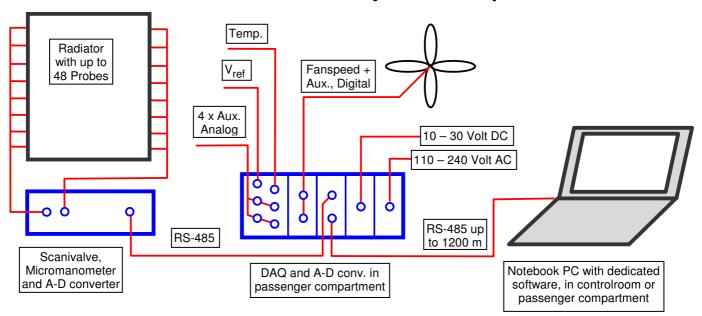
From grill, intercooler and condenser through radiator, fan, fan shroud and engine bay.

Simulation Tool Development

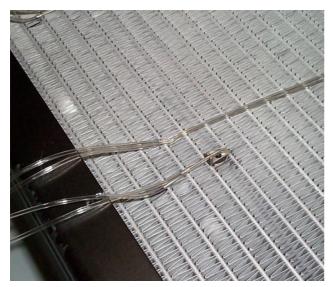
The development and verification of your cooling system prediction tools will benefit from reliable in-vehicle flow data.

- RUIJSINK DYNAMIC ENGINEERING can perform your cooling airflow research projects completely autonomous.
- We can do measurements in co-operation with you, in facilities of your choice.
- Alternatively you can acquire a complete system with training to perform your own in-house MicroProbe measurements.

The MicroProbe System Set-up:



An Instrumented Radiator



MicroProbes are designed to measure correct, even under oblique in- and outflow conditions. The probes are not visible on the front face of the radiator at all and protrude the rear only about 3 mm.

The **MicroProbes** can be used equally well in almost any car or truck radiator.

The instrumented radiator is to be calibrated on a suitable test rig. Then this radiator reads the air-velocity distribution in any test environment, from a sub-system test-rig to a fully equipped vehicle running in a windtunnel or on the road.

The Probes can be reused in a next project.

Short test turn-around time

One scan will be performed in less than 2 minutes, allowing many configurations to be tested in a short time. The result plot is immediately available on the PC.

This constant feedback allows an interactive course of the test campaign when required. The time saved will be most appreciated when using expensive prototypes and/or test facilities.