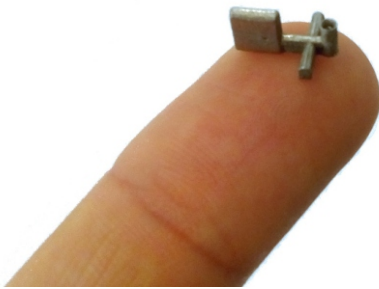
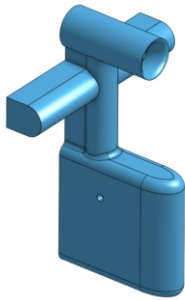


Radiator Probe

- Easy to use design for radiator mass flow measurements
- Titanium Inconel, stainless steel
- Robust design
- Low flow disturbance



The Vectoflow radiator probes offer an easy way to equip a radiator with probes in order to measure total mass flow and mass flow distribution through a radiator. The radiator probe simultaneously measures the total and static pressure of the flow. Several probes distributed over a radiator can measure the partial mass flow through the assigned section of the radiator, allowing to determine the uniformity of the flow.

The probe is easy to use, as it can be clipped onto the radiator, such that it is placed exactly in front of the cooling tubes, minimizing blockage effects. This way, the radiator does not have to be modified or damaged and the probes can be removed and reused afterwards.

An example application of a single probe is showed in the following pictures:



Specification

Geometry:	Special radiator design for minimal blockage
Number of Holes:	2
Material:	Stainless steel
Fixture:	Push fit
Acquisition Hardware:	Pressure Scanner available separately
Acquisition & Post Processing Software:	Customised Solutions possible
Temperature Range:	250°C

The probe head is of Kiel type to ensure the best possible measurement of the total pressure in a wide range of incident flow angles of attack.

Design

The probe design is not fixed and can be customized to individual requirements. The probes are produced by additive manufacturing, allowing great flexibility in design, size, and material choice.

Calibration

It is recommended to calibrate the probes with respect to the mass flow mounted on the radiator.