

# Hoentzsch Vane Wheel Gas Flow

Flow profiles, aerodynamic research, high temp., exhaust, laminar flow

Vane Wheel or Anemometers measure flow rate and velocity in pipes and ducts. They are used for flow profiles, aerodynamic research, measuring laminar flow, also at high gas temperatures, landfill gas, exhaust gas, flowing waters. They work as insertion probes or measuring tubes with fixed or portable evaluation units.

## Working Principle:

The vane wheel rotates at a speed proportional to the flow velocity of the fluid which surrounds it. The rotational speed is virtually independent of density, pressure and temperature of the medium. Vane wheel anemometers can be used in gases and liquids.

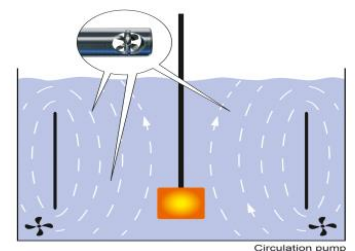
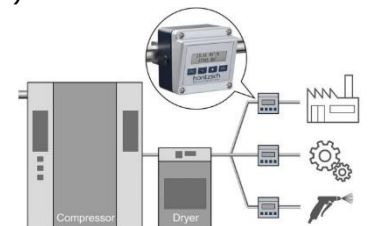
Sensing the vane wheel rotation is by a proximity switch which has no braking effect on the vane wheel flow meter. A further proximity switch allows sensing of rotational direction and with it recognition of the +/-direction of flow. Contamination does not influence pulse recognition.

Thanks to the lightness of the vane wheel, the rotation speed adjusts to velocity increases in milliseconds in gases and liquids, thus ensuring precise measuring.

Vane wheel flow meters can be adjusted and calibrated at the same frequency, so that flow sensors of the same type are interchangeable without restriction. Vane wheel measuring sensors accurately detect even very slight, bidirectional flow velocities. The measured data is recorded, monitored and evaluated per laptop, so that consumption and leakage in drinking water systems can be rapidly identified.

## Applications:

- Flow velocity of exhaust gas, explosive process gas (Ex/ATEX)
- Aggressive medium up to 550 °C working temperature.
- Monitoring of laminar flow in pharmaceutical applications, sterilizing tunnels, sterile tunnels, glove boxes and clean room technology
- blowouts and Natural Gas flares
- Aerodynamic inspections in the automobile industry and aerospace
- Measuring and monitoring of air conditioning and ventilating systems
- Fluid bed dryer
- Liquid nitrogen in cryogenic comminution
- Portable measurements in oil quenching basin in hardening plants
- Road tests or wind tunnel inspections
- Backflow and hotspots in radiators and ventilating systems
- Measuring flow velocity and flow rate of liquids in pipelines, open tunnels, rivers, lakes
- Demineralized, purified water.



[more product details](#)

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