

Air Flow Monitoring for Medicine and Pharmaceuticals



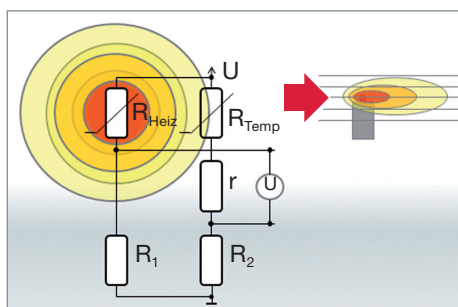
In many pharmaceutical and medical processes, air supply and ventilation systems are required for safe and reliable operation of the system. Frequently, the extracted air is also mixed with corrosive gases such as H_2O_2 , O_3 or even alcohol vapor. The effectiveness of ventilation is determined by minimum air flow and monitoring of this parameter is particularly important. The INT512 air flow sensor measures the air velocity in the duct, thereby ensuring reliable and safe operation of the system.



INT512

Product description

The KRIWAN INT512 air flow sensor measures the speed of air flows using the calorimetric principle. The sensor operates having compensated for temperature. The output signal can be 4–20 mA or 0–10 V. The INT512 family is characterized by good corrosion resistance against a range of media.



Calorimetric Principle

Calorimetric Principle

The calorimetric measuring principle is based on the heat transport from a heated body to the surrounding medium (e.g. air). Heat transfer is largely influenced by two variables, the speed of the medium and the cooling by movement. The evaluation of these measured variables provides a measure of the air flow velocity.

Benefits

- Precise recording of measured values
- Linear output signal
- High resistance to corrosion by the sensor
- Adjustable immersion depth
- Easy installation in duct
- Reliable industrial design
- Integrated temperature compensation
- Easy installation

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