

DTL04

Calorimetric Compact Flow Sensor for Air -Switching Output-

- relay or transistor output
- measuring range: 0,1...15 m/s
- max. pressure: 10 bar
- max. temperature: 80 °C
- insignificant pressure loss
- no moving parts
- independent of nominal sizes, pressure and temperature



Description:

The air flow sensor operate according to the proven calorimetric principle. A temperature-independent resistor at the sensor tip is electronically heated. The flowing air withdraws heat from it, which changes the resistance value. A second unheated resistor is used to measure the medium temperature

The temperature difference of both resistors is proportional to the flow velocity and thus to the volume flow. The switching point of the DTL04 is easily adjusted by an built-in potentiometer.

Typical applications:

The DTL04 calorimetric flow sensors are characterised by their particularly good price-performance ratio. The devices are used wherever laminar air flows have to be monitored: For example in building services engineering, exhaust and supply air control, filter monitoring, compressor monitoring, leakage monitoring, cooling circuits etc.

