

DTL06

Calorimetric Flow Sensor for Air -Analogue Output-

- analogue output 0...10 V
- measuring range: 0,1...30 m/s
- max. pressure: 10 bar
- max. temperature: 70 °C
- negligible pressure loss
- no moving parts
- independent of nominal diameter, pressure and temperature



Description:

The air flow meters work according to the proven calorimetric principle. A temperature-independent resistance 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 between the two resistances is proportional to the flow velocity and thus to the volume flow. The measured values of the DTL06 can be read off analogously by a voltage signal, which is simply set on site via a built-in potentiometer.

Typical applications:

The DTL06 calorimetric flowmeters are characterized by their particularly good price-performance ratio. The devices are used wherever laminar air flows have to be measured or monitored: For example in building services engineering, air supply, compressor monitoring, consumption measurement, leakage monitoring, cooling circuits, etc.

Models:

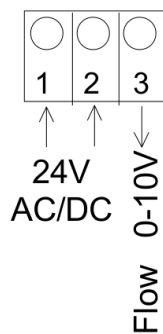
DTL06.A... Linear analogue output for flow

Technical Data:

Measuring range:	0...30 m/s
Analogue output:	0...10 V, (Ra = 10 kOhm) adjustable via potentiometer
Accuracy of the output signal:	+/- 10 % of measured value
Reproducibility of the output signal:	+/- 2 % of FS
Operating voltage:	24 VAC/DC, +/- 5%
Signal display operating voltage:	green LED
Power consumption max.	2 VA
Temperature range:	
ambient	-20 ... +60 °C
medium	0 ... +70 °C
Temperature gradient:	15 K/min
Compression strength:	10 bar
Process connection:	PG 7 mounting flange G 1/2 reduction
Immersion depth:	130 mm
Sensor material:	brass 58 nickel plated
Connection:	3 clamps, 2,5 mm ²
Protection class housing:	IP54
Protection class sensor:	IP67

* Reference conditions: 20 °C, 48 % r.h., 1016 mbar

Electrical Connection:



Order Code:

Order number: DTL06. A. 30. 1. 0

Calorimetric flow sensor for air
-analogue output-

Model:

A = analogue output 0...10 V

Measuring range:

30 = 0,1...30 m/s

Process connection:

1 = PG7 thread
2 = mounting flange
3 = G 1/2 reduction

Options:

0 = without
9 = please specify in plain text

Dimensions:

