

Mounting informations

To avoid malfunctions , the following points must be observed:

- The probe tip should fit as possible in the middle of the tube or in the outer third.
- The cross-hole in the sensor shaft should be fully flowed through by the gaseous medium.
- The red mark must be exactly aligned to the airflow
- With vertically installed pipes, the flow direction should be from bottom to top
- Free Inlet run 10xD front of the sensor and 10xD outlet run by the sensor comply, pay attention to non-turbulent laminar flow! Screw the flow switch only through the sensor tube / the hexagon of the sensor housing condensation and contamination in the medium can significantly distort the measurement result

Caution:

Optimal measurement results can only be achieved with optimum installation location of the sensor and compliance with the inlet and outlet! At high and borderline temperatures the radiant heat of the pipe network may affect the signal output.

Important:

Sensors and equipment are calibrated to each other. And exclusively for use provided with each other. Do not replace! Furthermore, the cable must not be shortened nor extended or replaced. The remote sensor must not be removed from the device before or during operation.

Adjustment

The current air flow will be displayed relative to the maximum airflow over the ten-part LED chain , which can be seen above the potentiometer (For Example maximum air flow = 10 m / s , three illuminated LED are corresponding 30 % of maximum air flow) . Flashing the outer right tenth LED, the current air flow is above the maximum nominal pressure range . The switching point is set via the potentiometer . The set switch point is signaled by a flashing LED in the LED chain .

DDCtech

°C Temperatur % Feuchte CO² Luftqualität Pa Druck

D-VT-A-30

AIR STREAM MONITOR



Made in Germany

Application

The D-VT-A-30 is a microcontroller -based air flow monitor with no display for gaseous flows in the range of about 0.5-10 m / s monitors . When output signals are a 4-20mA and 0-10V DC output. The air flow controller has a separate 0-10V output signal for the measurement of air temperature.

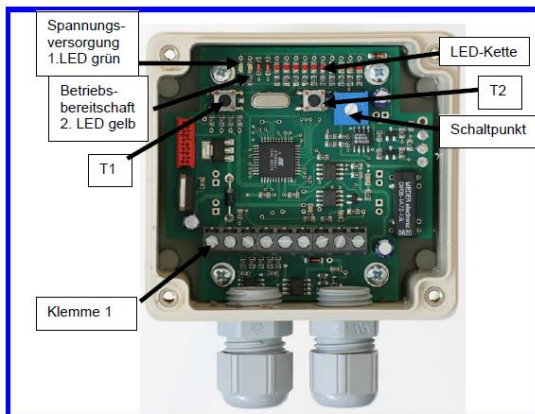
technical data

Power supply	24VDC
Power tolerance	+/- 5%
Signal LED	Power ok = LED green
Maximum performance	4VA
Operation temperature	-20°-50°C
Signal output flow	0-10V (Ra=10kOhm), linear
Signal output flow	4-20mA (Ra=0,2kOhm), linear
Accuracy	+/-5% of measurement end
Relais output	Opener or Closer Opens or closes the contact when flow is detected Clamps 8 and 9 (200V AC/DC 1A)
Function by flow	Switching point adjustable via Potentiometer
Transistor output	Open collector
reproducibility of the output signal under identical conditions	+/- 2%
Temperature area media	-25°-80°C
Temperaturgradient	30K/min
Switching point	Adjustable via potentiometer
Standard measurement range	0,1-10 m/s
Prozess connectioni	PG7 electrical, mounting flange, optional G1/2", M20x1,5, M16x1,5
Sensor material	MS or VA
Max pressure	10bar
Output signal	
Temperature	0-10 V
Air stream	0-10 V
Air stream	4-20mA

electrical connection

1	2	3	4	5	6	7	8	9	
---	---	---	---	---	---	---	---	---	--

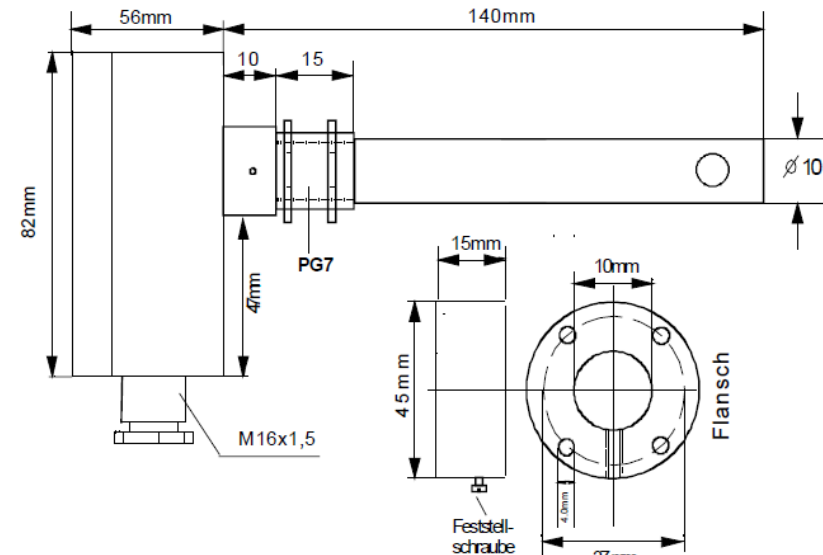
24V DC	Ground	10V Temp	10V Flow	-20mA Flow	+20mA Flow	Alarm OC	Relay		
--------	--------	----------	----------	------------	------------	----------	-------	--	--



DDCtech

°C Temperatur % Feuchte CO² Luftqualität Pa Druck

technical drawing



Allgemeine Hinweise

- Installation of the equipment must be performed by qualified personnel.
- The device may only be connected with the power off .
- The safety of the VDE, the states , the TÜV and the local energy supply company must be observed.
- The EMC directives are observed. It must be shielded connecting cables , and a parallel installation to live
- Pipes to be avoided.
- The operation in the vicinity of equipment that does not comply with EMC directives may adversely affect the functioning
- The buyer has to ensure compliance with the applicable building and safety guidelines
- This product should not be used for safety-related tasks , such as for the protection of persons as emergency stop switch on equipment .
- Improper use of any deficiencies or damage are excluded from warranty or liability .
- Consequential damages caused by a fault in this device are excluded from warranty or liability .
- It Only the technical data and connecting conditions of installation and operating instructions supplied with the instrument . Changes are possible at any time in the sense of technical progress and the improvement of the products.
- Changes of the device by the user, all warranty claims .