

Datasheet WSERD-534.446

Articlenumber: G8000429

Electronic air flow monitor for mounting on the air duct.

The WSERD air flow monitor is suitable for monitoring fans, control flaps, humidifiers and electrical heating registers in accordance with DIN 57100, Part 420 and for use with DDC systems. The air flow monitor works according to the calorimetric principle. The extraction of heat by the air flow is measured and converted into the switching value. The sensor contains a heating element and two temperature sensors. A microcontroller controls the heating and measures the temperature differences. From the stored calibration curves, it calculates the air flow speed and transmits the value serially to the control unit. Here another microcontroller determines the switching behavior of the two relays from the default values ??of the setting controls.



| | |
|--|-----------------|
| Adjustable tripping value for flow with fluids | 0,2 m/s |
| Adjustable tripping value for flow with gases | 10 m/s |
| Ambient temp. for evaluation electronics from | 0 °C |
| Ambient temp. for evaluation electronics up to | 50 °C |
| Bearing temperature, lower value | -10 °C |
| Bearing temperature, upper value | 70 °C |
| Can be read off | No |
| Degree of contamination | 2 |
| Depth | 85 mm |
| Electric connection | Screw terminals |
| Height | 69 mm |
| Housing material | Plastic |
| Included with probe | Yes |
| Length of sensor | 165 mm |
| Max. sensor temperature | 90 °C |

| | |
|--|------------------------------------|
| Maximum switching current | 8 A |
| Maximum switching voltage | 230 V AC, 50 Hz |
| Medium | Air, not aggressive |
| Medium temperature | -20 °C |
| Min. sensor temperature | -20 K |
| Number of switching stages | 10 |
| On-delay time | 120 s |
| Operating voltage | 100-240 VAC oder 24 V AC / DC |
| Potential free switching contact | Yes |
| Probe integrated in the device | Yes |
| Protection class | II, following appropriate mounting |
| Rated impulse voltage | 4000 V |
| Sensor element | Hot film anemometer |
| Switching contact | 2 two-way contacts |
| Switching difference, can be adjusted | Yes |
| Transistor output | 15 s |
| Type of protection | IP65 housing side, IP 54 sensor |
| Width | 136 mm |
| Wire break or measurement circuit monitoring | 20 s |
| With display | No |
| With explosion protection | No |

