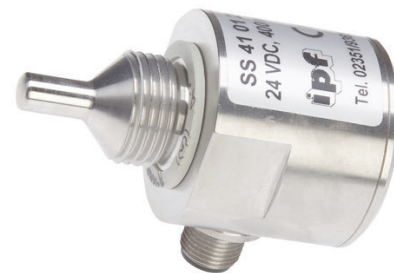


The function of the flow sensor is based on the calorimetric principle. The probe is heated up from the inside a few degrees Celsius in relation to the flow medium, in which it protrudes. When the medium flows, the heat generated in the probe is dissipated through the medium. The temperature within the sensor is measured and compared with the likewise measured medium temperature. From the obtained temperature difference the flow state of each medium can be derived. These sensors are applied in areas such as monitoring of cooling systems, ventilation systems, pump dry running by checking the presence of liquid or gas flows.


TECHNICAL DATA

Degree of protection (IP) of evaluation electronics	IP67
Degree of protection (IP) of measuring head	IP67
Depth	67 mm
Housing design	Cylinder plain
Housing material	Stainless steel 1.4571
Increased ambient temperatures > 80°C	NO
Medium temperature (MAX)	80 °C
Pressure resistance	100 bar
Sensing element material	Stainless steel 1.4571
Sensor diameter	40 mm
Type of process connection	Thread connection
Type of process connection	G 1/2 inch
Adjustable responding value for flow for liquids (min/max)	0.01 m/s / 3 m/s
Air conditioning / ventilation systems	NO
Alarm output	NO
Flow range for oil	3 m/s
Flow range for oil	0.03 m/s
Flow range for water	1.5 m/s
Flow range for water	0.01 m/s
Max. output current	400 mA
Measuring principle of flow	Calorimetric
No-load current	70 mA
Number of pins	4
Operating voltage (min/max)	24 V / 24 V
Pressure resistance of measuring head	100 bar
Readiness delay	15 ms
Residual ripple	20 %
Reverse polarity protection	YES
Setting procedure	Manual adjustment
Short-circuit-proof	YES
Type of electrical connection	Plug-in connection

