



Flow sensor

QVE3001

for demand-controlled air volume in laboratory fume hoods

-
- Quick and easy installation in laboratory fume hoods
 - Safe and secure acquisition of a reverse in flow direction
 - Integrated filter unit to prevent contamination of the sensor
 - Measuring range: 0 ...1.3 m/s
 - Output signal: DC 0...10 V

Application

The flow sensor is suited for accurate and long-term stable recording of the air face velocity of fume hoods with horizontal and vertical sliding front doors.

Ordering

Type (ASN)	Product number (SSN)	Designation
QVE3001	S55720-S397	Flow sensor

Equipment combinations

The flow sensor can be combined with all devices or systems that are capable of processing the flow sensor's DC 0 ...10 V output signal.

Notes

Mounting

- The sensor is supplied with mounting instructions.
- Can be installed in any direction.

Maintenance

The sensor is maintenance-free.

Technical design

The zero point and range can be adjusted with the help of 2 potentiometers (see Mounting instructions).

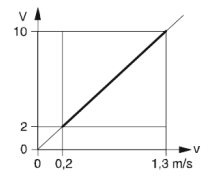
Disposal



The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations

Technical data

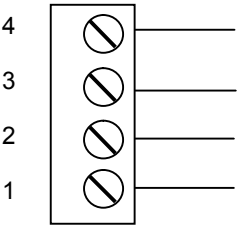
Power	Power supply	Safety extra low voltage (SELV/PELV)
	Operating voltage	AC 24 V -15%/+20%
	Frequency	50...60 Hz
	Current draw	<42 mA
	Power consumption	1 VA
Functional data	Caution 	No internal fuse
	Output signal	DC 0 ...10 V, linear to v [m/s] *) Load >10 kΩ, short circuit and over-voltage proof up to 24 V
	Measuring range	0...1.3 m/s
	Recommendation measuring range	0.2...1.3 m/s ($\cong$ 2 ... 10 V)
		
Degree of protection and safety class	Differential pressure	0...1 Pa
	Measuring accuracy	Linearity $\pm 2\%$
	Time constant	< 0.1 s
	Air volume	3 cm ³ /min (at 1 m/s)
	Degree of protection of housing	IP40 per EN 60529 (with terminal cover)
Electrical connection	Device protective type	III as per EN 60730
	Screw terminals for	1 x 0.2...1.5 mm ²
	Operating, environmental conditions	
Environmental conditions	Temperature (housing)	5...55 °C
	Humidity (housing)	<90% r. h.
Directives, standards	EU conformity (CE)	8000081676 ¹⁾
	RCM conformity	8000081923 ¹⁾
	EAC conformity	Eurasian Conformity
Dimensions (weight)	QVE3001	122 g
	QVE3001 including packaging	169 g

¹⁾ The documents can be downloaded from <http://siemens.com/bt/download>.

*) The indicated flow velocity refers to $\rho = 1.2 \text{ kg/m}^3$

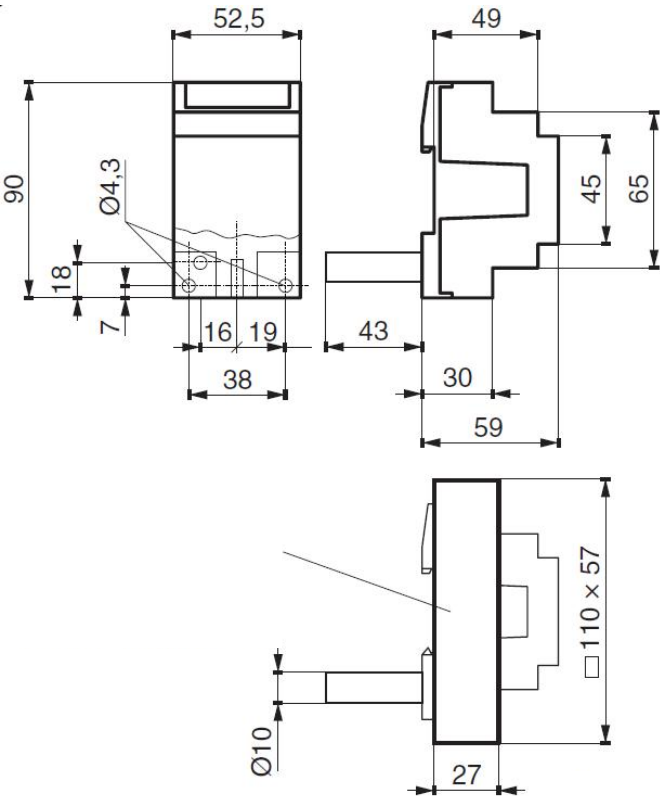
Connection diagrams

Internal Diagrams



BT terminal code	Terminal	Meaning
	4	GND
U	3	Output signal DC 0...10 V
	2	GND
~	1	Operating voltage AC 24 V

Dimensions



Published by:
Siemens Switzerland Ltd.
Building Technologies Division
International Headquarters
Gubelstrasse 22
6301 Zug
Switzerland
Tel. +41 41-724 24 24
www.siemens.com/buildingtechnologies

© Siemens Switzerland Ltd 2015
Delivery and technical specifications subject to change