

# VACUUM FLOW METERS

## S418-V



SMARTPHONE ANDROID APP  
For remote configuration



# Monitoring Vacuum Pumps — optimize process efficiency



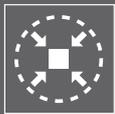
## S418-V FEATURES



**SMARTPHONE ANDROID APP**  
For remote configuration



**POINT-OF-USE INSTALLATION**  
No straight pipe section required



**COMPACT DESIGN**  
Can be installed anywhere



**TOTAL FLOW**  
No bypass measurement



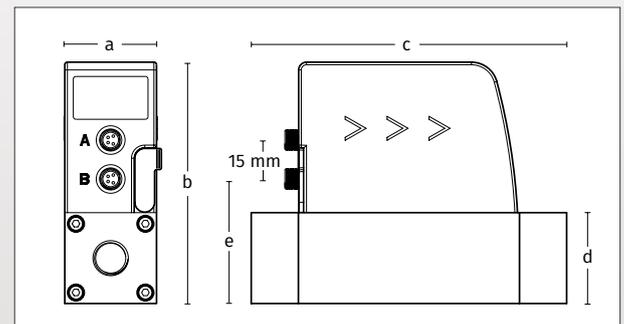
**EASY PROCESS MONITORING**  
Effective and inexpensive recording



**ACCURATE RESULTS**  
Integrated flow conditioner

For performance monitoring of vacuum pumps SUTO iTEC offers the S418-V. This inline flow meter measures the actual flow and absolute pressure on the low pressure side of vacuum pumps.

## S418-V DIMENSIONS



Dimensions in mm	a	b	c	d	e
DN8/DN15	35.0	93.0	120.4	35.0	48.0
DN20/DN25	48.0	106.0	178.0	48.0	61.0

## S418-V BENEFITS

- Convenient installation, great flexibility, can be installed anywhere
- Available as DN8, DN15, DN20 and DN25 (G female thread)
- Measures actual flow and absolute pressure
- Data logger integrated
- Absolute pressure sensor always integrated

## S418-V TECHNICAL DATA

General Specifications	
Inner thread	DN8, DN15, DN20, DN25
Process connection	G inner thread (ISO 228-1)
Pressure range	0.01 ... 1.60 bar(a)
Ambient / Transport temperature	0 ... +50°C / -30 ... +70°C
Medium conditions	0 ... +50°C / rH < 90% no condensation
Power supply	18 ... 30 VDC / 120 mA
Output signal	(A) Analogue 4 ... 20 mA, pulse (B) RS-485 (Modbus/RTU) (C) Digital M-Bus
LED display	4-Digit Flow + Pressure (option)
Material	Process connection: aluminum alloy Wetted parts: aluminum alloy Top casing: PC + ABS
Classification	IP54
Electrical connection	2 x M8, 4 poles
Approvals	CE, RoHS
Configuration	
Turndown ratio	100:1
Accuracy	1.5% of reading
Measured gas	Air
Response time (T90)	0.1 sec
Interface	Wireless for Service App, USB for logger readout
Data logger	Memory size: 8,000,000 samples Channels: up to 4 channels (Flow, Consumption, Temperature, Pressure) Sampling rate: 1 sec ... 1 h
Pressure sensor	Range: 0.01 ... 1.60 bar(a) Accuracy: 1% F.S.

Thread / Measuring Range	Standard Configuration			
Process connection	DN8	DN15	DN20	DN25
Measuring range in al/min	50	200	400	700

Stated measuring ranges under following conditions:

- Actual flow in Air at 1000 hPa and 20°C

Note: If some other measure range required, please contact our sales.

# S418-V ORDERING



Visit our website or e-mail us:  
[www.suto-itec.com](http://www.suto-itec.com)  
[sales@suto-itec.com](mailto:sales@suto-itec.com)

Please use the following table to assist in placing your order with our sales staff.

S418-V Thermal Mass Flow Meter		
Order No.	Code	Description
S695 419	S418-V	S418-V, vacuum flow meter, G inner thread, 1.5% o. RDG, with integrated absolute pressure sensor, 24 VDC supply voltage, Air, 5 m cable with M8 connector and open ends included
<b>Connection thread</b>		
S695 419	0	DN8 G thread connection
S695 419	1	DN15 G thread connection
S695 419	2	DN20 G thread connection
S695 419	3	DN25 G thread connection
<b>Output</b>		
A1450	A	Analog 4 ... 20 mA, Pulse Output
A1451	B	Modbus/RTU output
A1452	C	M-Bus output
<b>Units</b>		
	A	with SI units
A1459	B	with imperial units instead of SI units
<b>Accessories</b>		
A554 3315	T-BOX Modbus/M-Bus systems, including 2 m cable with M8 connector	
A554 0109	Mains power supply 100-240 VAC / 24 VDC, 0.5 A, 2 m cable with M8 connector	
A553 0137	Connection cable to S551, 5 m	
M599 7020	S4A data analysis software	

Example: S418-V1BB

DN15, Modbus/RTU, imperial units