

## Product Specifications

Model	VG-521S	
F.S. measurement range	0.13332 kPa (A)	1.3332 kPa (A) / 13.332 kPa (A) / 133.32 kPa (A)
Sensor temperature *1	100-200 °C	
Accuracy *2	0.5 %R.S.	0.3 %R.S.
Resolution	0.01 %F.S.	0.003 %F.S.
Zero temperature coefficient	0.016 %F.S./°C	0.008 %F.S./°C
Span temperature coefficient	0.02 %R.S./°C	
Response time	< 15 msec	
Operating temperature *3	10-60 °C	
Wetted materials	SUS316L	
Pressurization limit	300 kPa (A)	350 kPa (A)
Output signal	0-10 VDC Load resistance: ≥10 kΩ	
I/O connector	D-Sub 15pin	
Power supply voltage	±15 VDC±5 %, 33 W max.	
Warming-up time	120 minutes	
Trip point	Relay output: Normally open 4 pcs, Rated voltage: 40 VDC, Rated current: 1 A	
Standard fitting	KF16, 1/2 inch VCR Female	

\*1 The sensor temperature is indicated on the nameplate. Please specify the sensor temperature when ordering

\*2 Linearity, hysteresis, and repeatability are included.(at the ambient temperature of 25 °C)

\*3 Under the specified environmental conditions, when there are heat sources around the product or when some products are placed in close formation, the ambient temperature may exceed the specified ambient temperature.

Model	VG-527S	
F.S. measurement range	0.13332 kPa (A)	1.3332 kPa (A) / 13.332 kPa (A) / 133.32 kPa (A)
Sensor temperature *1	100-200 °C	
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Span temperature coefficient	0.02 %R.S./°C	
Response time	< 15 msec	
Operating temperature *3	10-60 °C	
Wetted materials	SUS316L	
Pressurization limit	300 kPa (A)	350 kPa (A)
Output signal	0-10 VDC Load resistance: ≥10 kΩ	
I/O connector	D-Sub 15pin	
Digital Interface	EtherCAT®	
Power supply voltage	24 VDC±5 %, 28 W max.	
Warming-up time	120 minutes	
Trip point	Relay output : Normally open 4 pcs, Rated voltage : 40 VDC, Rated current : 1 A	
Re-Zero input	Open terminal voltage : 24 VDC, ON current : ≥1 mA, Leakage current : ≤0.1 mA	
Standard fitting	KF16, 1/2 inch VCR Female	

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## Electrical connection

Connector type: D-subminiature 15-pin male connector  
(with #4-40 UNC inch screws)

Pin No.	Signal name	
	VG-521S	VG-527S
1	Trip point 1(Normally open)	
2	Pressure output signal: 0-10 VDC / 0-F.S. pressure (Load resistance: ≥10 kΩ)	
3	Trip point 1(Common)	
4	N.C.(Non-connection) *	Re-Zero input(Power common reference)
5	Power common	
6	Power input -15 VDC	N.C.(Non-connection) *
7	Power input +15 VDC	Power input 24 VDC
8	Trip point 2(Normally open)	
9	Trip point 2(Common)	
10	Trip point 3(Normally open)	Sensor Ready
11	Trip point 4(Common)	Heater Alarm
12	Pressure output signal Common	
13	Trip point 3(Common)	Sensor Ready
14	Trip point 4(Normally open)	Heater Alarm
15	Chassis ground	

\* Do not connect anything to this pin.

Description about the trip points(Referred to as the TPs)

• TP1(Pressure alarm): Pressure alarm setting user-specifiable

• TP2(Pressure alarm): Pressure alarm setting user-specifiable

• TP3(Sensor Ready): Turned on when the manometer is fully warmed up  
Open : Warming up Closed : Ready

• TP4(Heater alarm): Turned on when the sensor temperature is faulty  
Open : No alarm Closed : Alarm

## Selecting a model

Model	VG-5	2	Self temperature control	1	Analog, 0-10 V	7	EtherCAT®	S	SUS316L	10T	0.13332 kPa (A) (1 Torr)	11T	1.3332 kPa (A) (10 Torr)	12T	13.332 kPa (A) (100 Torr)	13T	133.32 kPa (A) (1000 Torr)	100-200	Selectable from 100 °C to 200 °C	KF16	KF16	8CR	1/2 inch VCR Female		
Communication type																									
Wetted materials																									
F.S. measurement range																									
Sensor temperature																									
Fitting																									

e.g., VG-5 2 7 S - 13T 150 8CR