

## Product Specifications

Model	VG-211S		
F.S. measurement range	0.13332 kPa (A)	0.26664 kPa (A)	1.3332 kPa (A) / 13.332 kPa (A) / 133.32 kPa (A)
Sensor temperature	Amb. (Non-self temperature control)		
Accuracy *1	0.5 %R.S.	0.25 %R.S.	
Resolution	0.03 %F.S.	0.01 %F.S.	
Zero temperature coefficient	0.01 %F.S./°C	0.005 %F.S./°C	
Span temperature coefficient	0.05 %R.S./°C	0.03 %R.S./°C	
Response time	< 60 msec		
Operating temperature *2	10-50 °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 %, 0.1 A max., -15 VDC ±5 %, 0.1 A max. 24 VDC±5 %, 2.4 W max.		
Warming-up time	15 minutes		
Open-collector output	Rated voltage: 30 V Rated current: 50 mA		
Re-Zero input	Non-voltage contact input Contact open voltage: 13 V Maximum contact current: 1.3 mA		
Standard fitting *3	KF16, 1/2 inch VCR Female, 1/4 inch VCR Female, ICF34		

\*1 Linearity, hysteresis, and repeatability are included.(at the ambient temperature of 25 °C)

\*2 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.

\*3 Please specify the fitting when ordering.

Model	VG-221S		
F.S. measurement range	0.13332 kPa (A)	0.26664 kPa (A)	1.3332 kPa (A) / 13.332 kPa (A) / 133.32 kPa (A)
Sensor temperature *1	55 °C / 100 °C (Self temperature control)		
Accuracy *2	0.5 %R.S.	0.25 %R.S.	
Resolution	0.03 %F.S.	0.01 %F.S.	
Zero temperature coefficient	0.005 %F.S./°C	0.0025 %F.S./°C	
Span temperature coefficient	0.03 %R.S./°C	0.02 %R.S./°C	
Response time	< 60 msec		
Operating temperature *3	10-50 °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 %, 0.6 A max., -15 VDC ±5 %, 0.6 A max. 24 VDC±5 %, 14.4 W max.		
Warming-up time	60 minutes(55 °C temperature. control type) 120 minutes(100 °C temperature. control type)		
Open-collector output	Rated voltage: 30 V Rated current: 50 mA		
Re-Zero input	Non-voltage contact input Contact open voltage: 13 V Maximum contact current: 1.3 mA		
Standard fitting *4	KF16, 1/2 inch VCR Female, 1/4 inch VCR Female, ICF34		

\*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.

\*4 Please specify the fitting when ordering.

## Electrical connection

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

Pin No.	Signal name
1	Re-Zero input (+)
2	Pressure output signal: 0-10 VDC / 0-F.S. pressure (Load resistance: ≥10 kΩ)
3	Re-Zero input (-)
4	NPN open-collector output (Warming-up Status) Open collector is ON when warming-up is completed.
5	Power common
6	Power input -15 VDC *
7	Power input +15 VDC / 24 VDC
8	Un-used (Do not connect anything to this pin.)
9	Un-used (Do not connect anything to this pin.)
10	Un-used (Do not connect anything to this pin.)
11	Un-used (Do not connect anything to this pin.)
12	Pressure output signal common
13	Un-used (Do not connect anything to this pin.)
14	Un-used (Do not connect anything to this pin.)
15	Un-used (Do not connect anything to this pin.)

\* When using the single 24 V power supply, do not connect anything to the pin 6.

## Selecting a model

Model	VG-2						
Self temperature control		11	No				
		21	Yes				
Wetted materials		S		SUS316L			
F.S. measurement range		10T		0.13332 kPa (A) (1 Torr)			
		20T		0.26664 kPa (A) (2 Torr)			
		11T		1.3332 kPa (A) (10 Torr)			
		12T		13.332 kPa (A) (100 Torr)			
		13T		133.32 kPa (A) (1000 Torr)			
Sensor temperature		000		Amb. (Applicable to VG-211S)			
		055		55 °C (Applicable to VG-221S)			
		100		100 °C (Applicable to VG-221S)			
Fitting		KF16		KF16			
		8CR		1/2 inch VCR Female			
		4CR		1/4 inch VCR Female			
		ICF34		ICF34			

e.g., VG-2 21 S - 11T 055 KF16