

267 Series - Very Low Differential Pressure Transducers

- ▶ Multi-range capability
- ▶ 0.1 to 100" WG (differential ± 0.05 to ± 50 " WG)
- ▶ 3 1/2 digit display

The models 267 and 267MR are very low range transmitters for ranges as low as 0.1" WC with high overload capability of up to 700mb in either direction without damage. Both units offer a field configurable high level voltage or 4-20mA current output with the 267 offering the options of a 3 1/2 digit LCD display and static probe making it ideal for Building Energy Management Systems with quick and easy installation directly on a duct, as well as a multi-range capability of six selectable ranges via D.I.P. switches.

The 267MR has D.I.P. switches which gives a multi range capability allowing up to six selectable ranges.



Specifications

Input

Pressure Range	See ordering chart
Proof Pressure	700mbar
Fatigue Life	7 million cycles

Performance

Supply Voltage (Vs)	9-30 Vdc (9-30 Vdc optional on Vdc outputs)
Accuracy	$\pm 1.0\%$ FS (Standard); .4% & .25% versions available
Thermal Error Zero	$\pm 0.06\%$ FS/ $^{\circ}$ C ($\pm 0.033\%$ FS/ $^{\circ}$ F)
Thermal Error Span	$\pm 0.06\%$ FS/ $^{\circ}$ C ($\pm 0.033\%$ FS/ $^{\circ}$ F)
Compensated Temperatures	5 $^{\circ}$ C to 65 $^{\circ}$ C (40 $^{\circ}$ to 150 $^{\circ}$ F)
Operating Temperatures	-18 $^{\circ}$ C to +65 $^{\circ}$ C (0 $^{\circ}$ to +150 $^{\circ}$ F)
Storage Temperatures	-40 $^{\circ}$ C to +85 $^{\circ}$ C (-40 $^{\circ}$ to +185 $^{\circ}$ F)
Zero Tolerance	1% (.5% for high accuracy option)
Span Tolerance	1% (.5% for high accuracy option)

Mechanical Configuration

Pressure Port	1/4" Fitting
Wetted Parts	Stainless Steel and Glass-Filled Polyester
Electrical Connection	Screw Terminal Strip
Enclosure	Fire Retardant Glass-Filled Polyester; Option A1 Conduit Enclosure Available
Approvals	CE
Weight	255 gms

Individual Specifications

Voltage Output Units

Output	0-5 Vdc or 0-10 Vdc (3 wire) (see ordering chart)
Min. Load Resistance	5000 kohms

Current Output Units

Output	4-20 mA (2 wire)
Max. Loop Resistance	(Vs-9) x 50 ohms

Applications

- ▶ HVAC
- ▶ Energy Management Systems
- ▶ Variable Air Volume and Fan Control (VAV)
- ▶ Static Duct Pressure
- ▶ Clean Room Pressures
- ▶ Oven Pressurisation and Furnace Draft Controls

How They Operate

A tensioned stainless steel diaphragm and insulated stainless steel electrode, positioned close to the diaphragm, form a variable capacitor. Positive pressure moves the diaphragm toward the electrode, increasing the capacitance. A decrease in pressure moves the diaphragm away from the electrode, decreasing the capacitance. The change in capacitance is detected and converted to a linear DC electrical signal by unique electronic circuitry.

How to Order

Use the **bold** characters from the chart below to construct a product code

SELECT:

Series 2671 **OR1** **W** **D** **11** **G1** **C** **D**

2671 - 267 Series

Pressure Range Code

Code	Range (inches W.C.)	Code	Pascals
OR1	0 to 0.1 ±0.1	025	0 to 25 ±25
R25	0 to 0.25 ±0.25	050	0 to 50 ±50
OR5	0 to 0.5 ±0.5	100	0 to 100 ±100
001	0 to 1 ±1	250	0 to 250 ±250
2R5	0 to 2.5 ±2.5	500	0 to 500 ±500
005	0 to 5 ±5	10C	0 to 1000 ±1000
010	0 to 10 ±10	25C	0 to 2500 ±2500
025	0 to 25 ±25	40C	0 to 4000
050	0 to 50 ±50	70C	0 to 7000
100	0 to 100		

Units _____

W - in W.C.
L - Pascal

Type _____

Differential
D - Unidirectional
B - Bidirectional

Output _____

11 - 4-20mA
2D - 0-5 Vdc
2E - 0-10 Vdc

Note 1. ±0.5%FS (Code H) accuracy is standard when ordered with the LCD display (Code: D).

Display
D - LCD Display (see note 1)
N - No Display

Accuracy
C - ±1.0%FS
Optional (w/Cal.Cert.)
E - ±0.4%FS
F - ±0.25%FS
G - ±1%FS
H - ±0.5%FS

Pressure Fitting/Electrical Termination
(Choose the proper electrical termination code under the pressure fitting ordered)

1/4" NPT F, Brass Optional Fitting
1K - PG-9 Strain Relief
2K - PG-13.5 Strain Relief
9K - 9 pin D-sub Connector
AK - 1/2" Conduit Opening

3/16" Barbed Brass Standard Fitting
G1 - PG-13.5 Strain Relief
G2 - PG-9 Strain Relief
D9 - 9 pin D-sub Connector
A1 - 1/2" Conduit Opening

Static Duct Probe Optional Fitting
1P - PG-9 Strain Relief
2P - PG-13.5 Strain Relief
9P - 9 pin D-sub Connector
AP - 1/2" Conduit Opening

SELECT:

Series 2671 **OR1** **W** **D** **11** **G1** **C** **D**

2671 - 267 Multi Range Series

Pressure Range Code

Code	Range (inches W.C.)	Code	Pascals
MR1	0 to 0.1 ±0.05	MR5	0 to 25 ±12.5
MR2	0 to 0.25 ±0.125	MR6	0 to 50 ±25
	0 to 0.5 ±0.25		0 to 100 ±50
	0 to 1 ±0.5		0 to 200 ±100
MR3	0 to 1.25 ±0.625	MR7	0 to 250 ±125
	0 to 2.5 ±1.25		0 to 500 ±250
	0 to 5.0 ±2.5		0 to 1000 ±500
MR4	0 to 7.5 ±3.75	MR8	0 to 625 ±312
	0 to 15 ±7.5		0 to 1250 ±625
	0 to 30 ±15		0 to 2500 ±1250
		MR9	0 to 1875 ±937
			0 to 3750 ±1875
			0 to 7500 ±3750

Units _____

W - in W.C.
L - Pascal

Type _____

Differential

Output _____

11 - 4-20mA
2D - 0-5 Vdc
2E - 0-10 Vdc

Display
N - No Display

Accuracy
C - ±1.0%FS
Optional (w/Cal.Cert.)
G - ±1.0%FS

Pressure Fitting/Electrical Termination
(Choose the proper electrical termination code under the pressure fitting ordered)

1/4" NPT F, Brass Optional Fitting
1K - PG-9 Strain Relief
2K - PG-13.5 Strain Relief
9K - 9 pin D-sub Connector
AK - 1/2" Conduit Opening

3/16" Barbed Brass Standard Fitting
G1 - PG-13.5 Strain Relief
G2 - PG-9 Strain Relief
D9 - 9 pin D-sub Connector
A1 - 1/2" Conduit Opening

Static Duct Probe Optional Fitting
1P - PG-9 Strain Relief
2P - PG-13.5 Strain Relief
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AP - 1/2" Conduit Opening