DG85 Differential Pressure Gauge

Overview

This differential pressure gauge is designed for detecting air filter pressure drop used in an air-conditioning sytem to monitor extremely low pressure measurement.

Application includes not only for differential pressure measurement but also for flow and low pressure measurements, etc.

Features

- •Incorporates diaphragm made of silicone rubber with small hysterisis characteristic.
- •Higher proof pressure.
- •External zero adjustable.
- •For wall mounting type, high and low pressure measuring functions can be alternaetely switched by exchanging each side of fitting.





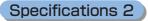


Square Case

Meida:	Proof pressure for sensing element* (Proof pressure for the						
Air and non-corrosive gas	single port):						
Not for use with media containing foreign matters	10 to 150kPa						
Design and Construction:	(Depending on specified differential pressure ranges.)						
Sealed Case Type	*Same proof pressure applied for negative pressure						
Mounting:	measurements (Vaccumed at L pressure side)						
Panel mounting, Wall mounting, Square case	Proof pressure for enclosure (applying pressure at two po						
*Installation in outer case optionally available upon	200kPa						
request.	Operating temperature range:						
Position Orientations:	-20 to 60°C (Non-freezing)						
Upward-facing horizontal, 45°Upward, Vertical,	Accuracy:						
45°Downward, Downward-facing horizontal	±5%F.S., ±2.5%F.S. or ±1.5%F.S.						
*Downward-facing horizontal is not available where	(Depending on specified differential pressure ranges.)						
100Pa full scale range and below are the requirements.	JIS B7505-1 specifies that lower and upper 10% of the						
Size:	scale and 5% around "centered zero" has 1.5 times						
<i>φ</i> 85	greater accuracy than specified accuary.						
Connection:	Temperature error:						
ϕ 6 Brass pipe fitting, ϕ 8 Brass pipe fitting,	Less than 1% of maximum rated pressure (At 10 to 30						
ϕ 7 (Rotary) Barb fiting	Scale angle:						
Wetted parts:	250° wide-angle scale (Scale length: Approx. 180mm)						
Diaphragm Silicon rubber	Case finish:						
Case Polyacetal resin	Black						
Cover glass Methacrylate resin	Weight:						
Others Aluminum alloy, phosphor bronze, brass,	Approx. 480g						
neoprene, and NBR	Accessories: (Option)						
Differential pressure range:	Pulsation restrictor						
0 to 50Pa \rightarrow 0 to 100kPa,	It will be placed in the middle of process bweteen						
10 to 0 to 40Pa → 3 to 0 to 3kPa	higher and lower pressure when pressure gauge is						
	subjected to rapid pressure fluctuations.						
	Model number: FS80-00						

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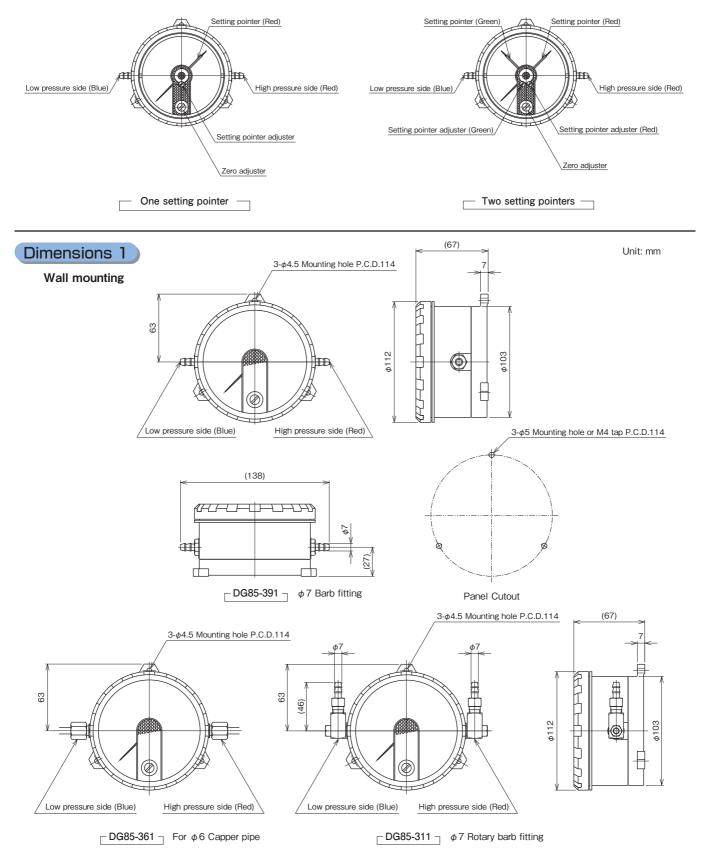


Setting pointer

One or two setting pointers are available upon request. Select corresponding ordering code in the model number configuration when ordering.

Fitting

There is no indication for high pressure (Red) and low pressure (Blue) marked on included fittings with panel mount gauge. Standard specification comes with right pressure port for high pressure. For wall mounting type, high and low pressure measuring functions can be alternaetely switched by exchanging each side of fitting.



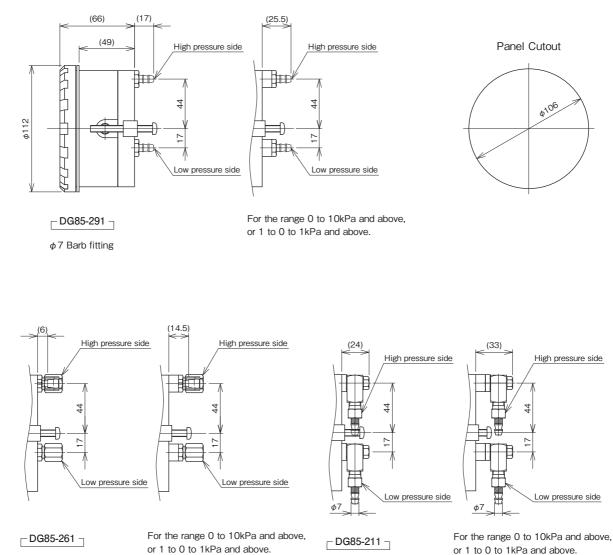
* For wall mounting type, high and low pressure measuring functions can be alternaetely switched by exchanging each side of fitting.

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Dimensions 2

Unit: mm



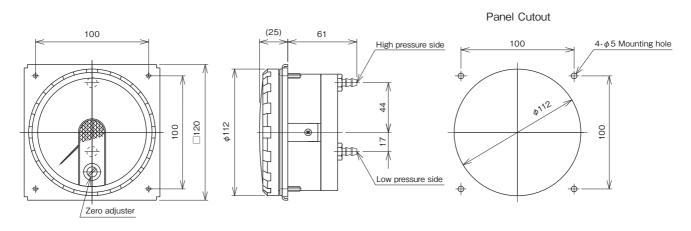


* For panel mount gauge, there is no indication for high pressure (Red) and low pressure (Blue) marked on included fittings.

φ7 Rotary barb fitting

Square Case

 ϕ 6 Brass pipe fitting



* For more details, please contact us.

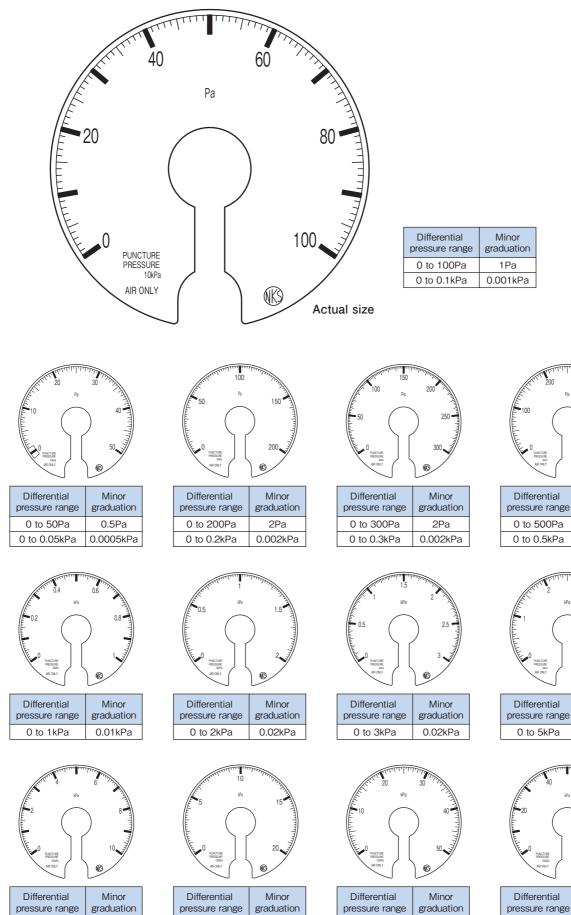
Dial Faces 1

0 to 10kPa

0.1kPa

0 to 20kPa

Positive Pressure Range



Minor

graduation

5Pa

0.005kPa

Minor

graduation

0.05kPa

Minor

graduation

1kPa

0 to 100kPa

0 to 50kPa

0.5kPa

0.2kPa

Dial Faces 2

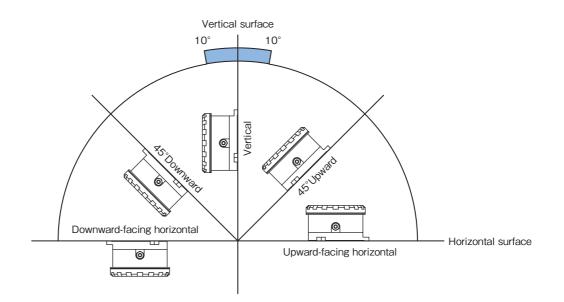
Zero Centered Dial

20 Pa 20 30 30 40 40 40 Patring Patrin		50 mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	100 Pa 150 Pa 150 Pa 150 Pa 150 Pa 150 Pa 150 Pa 150 Pa	00 100 150 100 8	200 40 GL V	100 200 3000
	inor Differential luation pressure range	Minor graduation	Differential pressure range	Minor graduation	Differential pressure range	Minor graduation
50 to 0 to 50Pa 1	Pa 100 to 0 to 100Pa	2Pa	200 to 0 to 200Pa	5Pa	300 to 0 to 300Pa	4Pa
0.05 to 0 to 0.05kPa 0.00	0.1 to 0 to 0.1kPa	0.002kPa	0.2 to 0 to 0.2kPa	0.005kPa	0.3 to 0 to 0.3kPa	0.004kPa
200 Ps 200 300 300 400 400 results		0.5		1.5 THE THE REPORT	And a second sec	2 2 2
	inor Differential pressure range	Minor graduation	Differential pressure range	Minor graduation	Differential pressure range	Minor graduation
500 to 0 to 500Pa 10	0Pa 1 to 0 to 1kPa	0.02kPa	2 to 0 to 2kPa	0.05kPa	3 to 0 to 3kPa	0.04kPa
0.5 to 0 to 0.5kPa 0.0						

Position Orientations

No need to specify tilt angle for use in (_____) zone.

Downward-facing horizontal is not available where 100Pa full scale range and below are the requirements.



Consult factory for other position orientations when ordering.

Differential Pressure Gauge

Model number configuration Please specify the model, each requiring specification and differential pressure range to order.

Μ	lodel																		
DG	a 8	5]—			×	\times		×	\times	\times	\times	\times	\times	
Differential I	Pressur	e Gau	Jge	1	2	3		4	5	6	7	8	9	10	11	(12)	(13)	(14)	15
Model number						Product specifications Additional specifications (Optional)													
	(1)			2	Pane	l moun	ting												
	Mounting *1 3			3	Sufa	Suface mounting													
		2			1	1 ϕ 7 Rotary barb fitting (For tubing with ϕ 6 inner diameter vinyl tube)													
		Conne	ection		2	2 φ6 Brass rotary pipe fitting													
					6	6 φ6 Brass pipe fitting													
					8	φ8E	Brass pi	ipe fittir	ng										
					9	9 ϕ 7 Rotary barb fitting (For tubing with ϕ 6 inner diameter vinyl tube)													
	(3)					1	Not r	equired											
			Settin	ig poin	ter	А	One :	setting	pointer (Red)										
						В	Two	setting	pointer	rs (Eacł	n red ar	id greer	ר)						
					(4)	1			0 to 50Pa, 10 to 0 to 40Pa										
	Differential					2	50 to 0 to 50, 100 to 0 to 100Pa												
	Please specify differential pressure range and unit				pressure range 3			3	0 to 100, 0 to 200Pa										
	of measure along with			\rightarrow	4			0 to 300, 500Pa, 1, 2, 3, 5kPa											
correspond	corresponding ordering code.				5			5	50 to 0 to 250Pa, 200 to 0 to 200, 300 to 0 to 300, 500 to 0 to 500Pa,										
									1 to 0 to 1kPa, 2 to 0 to 2kPa, 3 to 0 to 3kPa										
						6			0 to 10, 20, 30, 50, 100kPa										
					5 Position				A Upward-facing horizontal										
				orientations				B C		45° Upward Vertical									
								D		Downw	ard								
									E Downward-facing horizontal *2										
						8					eauired								
* 1: Consutl factory for for square type.						Othe	0 Not required Other additional spec. 1 Accessories *3												
For panel mo	For panel mounting, high pressure and						L				0	Not re	equired						
low pressure functions can't be switched.							15 Documents			1	Not required Required								
where 100Pa	 * 2: Downward-facing horizontal is not available where 100Pa full scale range and below are the requirements. * 3: Two pitot tubes, polyvinyl chloride tube 2m 											(Docu Data Instru Inspe Mill	uments a asheet (uction r ection r test rep	Drawin manual procedu port	ıre	ecificati			
											Calibration test report (One-pa Inspection / Traceability ce Attending inspection								

Pressure Range Selection Table

Differential pressure range	Accuracy	Proof pressure for sensing element* (Single port)
0 to 50Pa 10 to 0 to 40Pa	±5%F.S.	
0 to 100Pa 50 to 0 to 50Pa 100 to 0 to 100Pa 0 to 200Pa	±2.5%F.S.	10kPa
0 to 300Pa 0 to 500Pa 0 to 1kPa 0 to 2kPa 0 to 3kPa 0 to 5kPa 50 to 0 to 250Pa 200 to 0 to 200Pa 300 to 0 to 300Pa 500 to 0 to 300Pa 1 to 0 to 1kPa 2 to 0 to 2kPa 3 to 0 to 3kPa	±1.5%F.S.	40kPa
0 to 10kPa 0 to 20kPa 0 to 30kPa 0 to 50kPa 0 to 100kPa		150kPa

* Specify code "X" to refer N/A

JIS B7505-1 specifies that lower and upper 10% of the scale and 5% around "centered zero" has 1.5 times greater accuracy than specified accuary. *Same proof pressure applied for negative pressure (vaccumed at L pressure side)