

**General Purpose Digital Pressure Gauge
DG5/DG25**

Stainless steel thin film sensor element.
Accuracy 0.5% or 0.25% F.S.D. **Total Error Band**, includes all effects of linearity, hysteresis, repeatability and temperature from -18 up to 63°C.

Features:

- Full scale terminal point accuracy.
- Easy-to-read four digit display.
- Chemical resistant Noryl® case.
- Versatility of 9 engineering units.
- Max-pressure indication.
- On/off feature.
- Backlight.
- Field calibration capability.
- Meets ASME B40.7
- High proof pressure.

Ranges:

- 1 ... 0 bar up to 0 ... 700 bar.
- 30 ... 0 Inch Hg up to 0 ... 9,999 psi.



Technical specification

		DG5					DG25
Measuring principle		Thin film sensor element with internal diaphragm					
Range:	[bar]	2,5	4	6	10	16	25
	[psi]	40	60	100	160	250	400
	[in.Hg/psi]	600	700	-1/0	-1/2	-1/3	-1/5
Overpressure limit		-1/9	-1/15	500	-1/0	-1/1	-1/2
		30	60	100	200	300	500
		1000	1500	3000	5000	9999	
		-30/0	-30/30	-30/60	-30/100	-30/150	-30/300
Cycle life		Ranges <70 bar 2-times, ranges > 70 bar and < 400 bar 1,5-times, ranges > 400 bar 1,2-times					
Pressure type		10 ⁸ cycles (20/80% F.S.)					
Case size		Gauge, vacuum, compound.					
Process connection		2 ½ Inch. (70 mm)					
Connection orientation		G ½ B male according to EN 837-1. ¼ NPT according to ANSI/ASME B1.20.1, others on request					
Material:	Process connection	Lower, optional 3 or 9 o'clock					
	Sensor	Stainless steel 316 (1.4404)					
	Case	Stainless steel 17-4 PH (1.4542/1.4548)					
	Display	Noryl®					
Power supply	Lexan						
Display:	Type	2 AAA alkaline batteries, battery life > 500 hours					
	Digits, resolution	LCD with optional backlite					
	Features	4 digit, 9,999 counts, 13 mm high					
Accuracy:		Four level battery indication					
		0,5% F.S.				0,25% F.S.	
Engineering units	Method	Terminal point					
	Including	Linearity, hysteresis and repeatability					
Update rate		psi, in. Hg, cm.Hg, mm.Hg, ft.H ₂ O, bar, kPa, Mpa, kg/cm ²					
Auto off	[min]	10 times per second					
Permissible:	Ambient temperature	4 options: never, 5, 10 or 20					
	Storage temperature	-10... 60°C					
		-20... 70°C					

Technical specification continued....

Technical specification

Compensated temperature
 Temperature influence
 Shock resistance
 Vibration
 CE-mark/EMC
 Protection according EN 60 529/IEC 529
 Weight [kg]
 Accessories, options

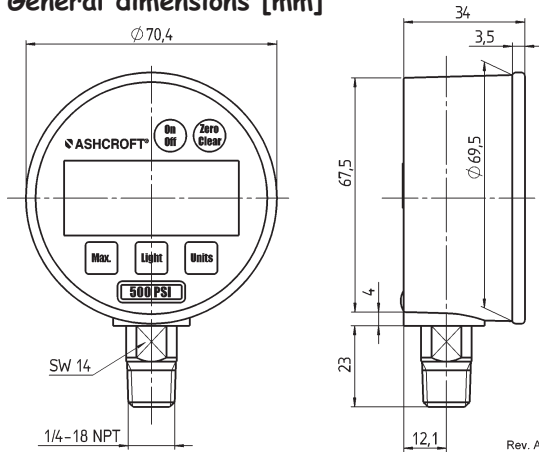
D65

-29... 82°C
 ±0,5% / 10K (ref. 20°C), ranges -1/0 bar and 0/2,5 bar ±0,7% / 10K (ref. 20°C)
 < 0,05% F.S. at 100 g / 20 ms
 < 0,1% F.S. for 0... 2000 Hz at 20 g in any axis according to IEC 770
 According to EN 61326 (1998)
 Ip65, Ip65 with protective boot
 0,14
 Protective boot, calibration certificate

D625

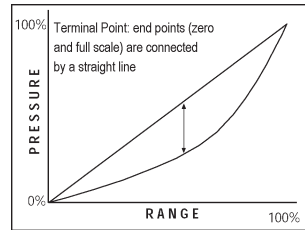
All specifications are subject to change without notice.

General dimensions [mm]



Compare of methods terminal point accuracy and best fit straight line (BFSL)

Digital pressure gauge with terminal point accuracy

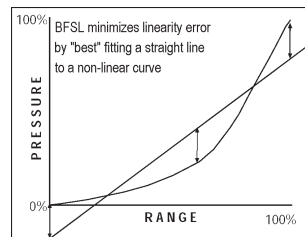


- All points between zero and full-scale will be within stated accuracy.
- Allows zeroing of gauge at start-up to eliminate any sensor offset.

Competitive digital gauges with best fit straight line (BFSL)

Terminal Point accuracy statement includes:

- Linearity
- Hysteresis
- Repeatability



- Linearity error minimized by "best" fitting a straight line to a non-linear curve.
- BFSL gauges have a zero offset at calibration that must be maintained to ensure accuracy throughout range.

Order information

Size	Type/System material	Process Connection	Connection orientation	Size	Eng unit	Options	
(25) 2 1/2" (70 mm)	(D1005PS) Stainless steel 316 (1.4401)	(02) 1/4" NPT male	(L) Lower	-1/ 0	(BAR)	(Cd4) 4-point calibration certificate	
			(E) 9 o'clock	-1/ 2			
			(KJ) 3 o'clock	-1/ 3			
		(13) G 1/4" B male	(E) 9 o'clock	-1/ 5	(AQ) Accuracy 0,25%		
			(KJ) 3 o'clock	-1/ 9			
			(KJ) 3 o'clock	-1/ 15			
		others on request				0/ 2,5	(BL) Backlite
						0/ 4	
						0/ 6	
						0/ 10	
	0/ 16						
	0/ 25						
	0/ 40				(B2) Orange protection boot		
	0/ 60	(B3) Blue carrying pouch					
	0/ 100						
	0/ 160						
			0/ 250	psi and others on request			
			0/ 400				
			0/ 600				
			0/ 700				

How to order

Size	Type/System material	Process connection	Connection orientation	Range	Engineering unit	Options
25	D1005PS	13	L	0/4	BAR	B1