

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

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

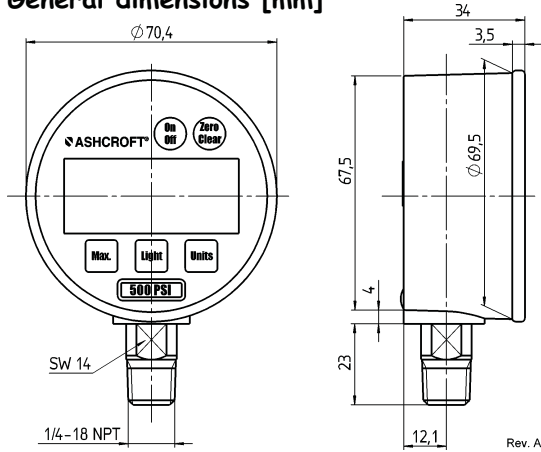
## D65

-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

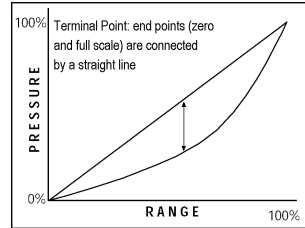
All specifications are subject to change without notice.

## General dimensions [mm]



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

Digital pressure gauge with terminal point accuracy

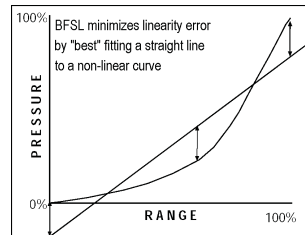


- All points between zero and full-scale will be within stated accuracy.
- Allows zeroing of gauge at start-up to eliminate any sensor offset.

## 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) 1/4" straight KIS, BSP	(KJ) 3 o'clock	-1/ 15	(BL) Backlite	
				0/ 2,5		
				0/ 4		
				0/ 6		
				0/ 10		
others on request		0/ 16	(B1) Black protection boot			
		0/ 25				
		0/ 40				
		0/ 60				
		0/ 100				
		0/ 160				
		0/ 250				
	0/ 400	(B2) Orange protection boot				
	0/ 600					
	0/ 700					
			(B3) Blue carrying pouch			
			psi and others on request			

## How to order

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