

General Purpose Digital Gauge Type D1005PS, $\pm 1/2\%$ of Span Terminal Point Accuracy

- **Enhanced value versus mechanical gauges**
- **No-nonsense accuracy – $\pm 0.5\%$ full scale accuracy**
- **Easy-to-read – 4 1/2 digit display with 1/2" character size, optional backlite display feature to enhance visibility**
- **Versatile – 9 engineering units and stainless steel sensor suitable for a variety of applications**
- **Standard features – max.-pressure indication; ranges from vacuum to 19,999 psi, including compound**
- **Competitively priced and can be customized for OEM applications**

The Ashcroft® Type D1005PS offers 0.5% of span accuracy, while the stainless steel sensor and socket make this product suitable not only for dry air applications but for other media as well.

This product offers selectable units of measure so rather than purchasing one gauge for each unit of measure required, the solution is one gauge for multiple units of measure.

The D1005PS is standard with many features not offered, or offered only as options, on competitor's digital gauge products, such as peak hold and 4 1/2 digit display. When compared to mechanical gauges the



*Protective Boot Optional

D1005PS offers overall enhanced value.

PRODUCT SPECIFICATIONS

Type no.:	D1005PS
Accuracy:	$\pm 0.5\%$ of span
Case Size:	2 1/2"
Case Material:	Noryl®
Wetted Parts:	17-4 PH stainless steel sensor; 316 stainless steel socket
Socket Size:	1/4 NPT
Connection:	Lower
Ranges:	Vac. thru 19,999 psi (see standard ranges for other units of measurement)
Battery:	Two AAA alkaline batteries; approximately 1000 hours battery life
Overpressure:	Vac. 0/3000-0/1000 0/5000 0/19,999
Proof:	200% 150% 120%
Burst:	800% 300% 150%
Cycle Life:	10 ⁸ cycles 20/80% F.S. with negligible performance loss
Vibration:	Less than $\pm 0.1\%$ F.S. effect for 0/2000 Hz at 20 g's in any axis
Shock:	Less than $\pm 0.05\%$ F.S. effect for 100 g's, 20msec shock in any axis
Operating Temp.:	-10°C to 60°C (14°F to 140°F)
Storage Temp.:	-20°C to 70°C (-4°F to 158°F) (maximum temperature shift is .028% per °F from -20°F to 180°F starting at 68°F. For vacuum and 30 psi ranges the maximum temperature shift is .04%)
Update Rate:	100ms
Agency Approvals:	CE EN 61326 (1998); CE EN 61326 Annex A (heavy industrial)
Packaging:	Individual carton
Opt'l. Features:	$\pm 0.25\%$ of span accuracy; backlite; 3, 9, 12 o'clock connections; Alternate socket configurations – upon application; Customized keypad; Protective boot; Bulk packaging

DISPLAY

Type:	LCD
Display Digits:	1/2

Display Resolution:	Full Scale Numerical Value	Display Resolution
	$\geq -15 > 0$	-XX.000
	$> 0 < 2$	X.0000
	$> 2 < 20$	XX.000
	$\geq 20 < 200$	XXX.00
	$\geq 200 < 2000$	XXXX.0
	$\geq 2000 < 19,999$	XXXXX
Character Height:	0.5"	
Backlight:	OFF by default	
Battery:	Four-level battery indication	

KEYPAD FUNCTIONS

On/Off:	Manually turns unit on and off (four options: never, 5, 10 and 20 min.)
Backlite (optional):	Manually turns backlite on and off (four programmable auto on/off options)
Maximum (Peak Hold):	Displays max. value when activated
Zero/Clear:	Zeros display or clears max. value when activated
Engineering Units:	psi, in.Hg, cmHg, mmHg, kPa, MPa, bar, kg/cm ² , ftH ₂ O
Field Calibration:	Zero and span

STANDARD RANGES

Vacuum						
in. Hg	kPa	cmHg	Bar	kg/cm ²	mmHg	
-30/0	-100/0	-76/0	-1/0	-1/0	-760/0	
Compound						
in. Hg/psi	kPa	mPa	Bar	kg/cm ²	ft H ₂ O	
-30/30	-100/200	-	-1/2	-1/2	-35/70	
-30/60	-100/400	-	-1/2	-1/2	-35/140	
-30/100	-100/700	-	-1/2	-1/2	-35/230	
-30/150	-100/1050	-	-1/11	-1/11	-35/350	
-30/300	-100/2100	-	-1/21	-1/21	-35/700	
Pressure						
psi	kPa	mPa	Bar	kg/cm ²	ft H ₂ O	
0/30	0/200	-	0/2	0/2	0/70	
0/60	0/400	-	0/4	0/4	0/140	
0/100	0/700	-	0/7	0/7	0/230	
0/200	0/1400	-	0/14	0/14	0/460	
0/300	0/2100	-	0/21	0/21	0/700	
0/500	0/3500	-	0/35	0/35	-	
0/1000	0/7000	-	0/70	0/70	-	
0/1500	-	0/10	0/105	0/105	-	
0/2000	-	0/14	0/140	0/140	-	
0/3000	-	0/21	0/210	0/210	-	
0/5000	-	0/35	0/350	0/350	-	
0/10,000	-	0/70	0/700	0/700	-	
0/15,000	-	0/100	0/1000	0/1000	-	
0/19,999	-	0/140	0/1400	0/1400	-	

TO ORDER THIS TYPE D1005PS GAUGE:

Select:	25	D1005PS	02L	100#
1. Dial Size: 2 1/2"				
2. Case Type Number: D1005PS				
3. Wetted Parts: Stainless Steel				
4. Connection: 1/4 NPT lower				
5. Range: 0/100 psi				

Consult factory for guidance in product selection
Phone (203) 385-0217, Fax (203) 385-0602 or
visit our web site at www.ashcroft.com