

General Purpose Digital Gauge Type D1005PS, ½% Full Scale Terminal Point Accuracy

- **Enhanced value versus mechanical gauges**
- **No-nonsense accuracy – ½% full scale terminal-point accuracy**
- **Easy-to-read – 4 digit display with ½" character size and backlight 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 10,000 psi**
- **Competitively priced and can be customized for OEM applications**

The Ashcroft® Type D1005PS offers ½% full scale 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 backlight, peak hold and four-digit display. When compared to mechanical gauges the D1005PS offers overall enhanced value.



*Protective Boot Optional

GAUGE SPECIFICATIONS

Type:	D1005PS
Accuracy:	½% F.S.
Case Size:	2½"
Case Material:	Noryl®
Wetted Parts:	17-4 PH stainless steel sensor; 316 stainless steel socket
Socket Size:	¼ NPT
Connection:	Lower
Ranges:	Vac. thru 9,999 psi (see engineering units below for other units of measurement)
Battery:	Two AAA alkaline batteries; approximately 500 hours battery life
Overpressure:	Vac. 0/3000-0/1000 0/5000 0/9999
Proof:	200% 150% 120%
Burst:	800% 300% 150%
Cycle Life:	10 ⁸ cycles 20/80% F.S. with negligible performance loss
Vibration:	Less than ±0.1% F.S. effect for 0/2000 Hz at 20 g's in any axis
Shock:	Less than ±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)
Packaging:	Individual carton

Opt'l. Features: ¼% F.S. accuracy; 3, 9, 12 o'clock connections; Alternate socket configurations – upon application; Customized keypad; Protective boot; Bulk packaging

DISPLAY

Type: LCD
Display Digits: Four
Character Height: 0.5"
Backlight: OFF by default
Battery: Four-level battery indication

KEYPAD FUNCTIONS

On/Off: Manually turns unit on and

Backlight: off (four options: never, 5 min., 10 min., 20 min.)
 Manually turns backlight 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, inHg, cmHg, mmHg, kPa, mPa, Bar, kg/cm², ftH₂O

Field Calibration: Zero and span

STANDARD RANGES

VACUUM					
in. H ₂ O	kPa	cm Hg	mm Hg	Bar	kg/cm ²
-30/0	-100/0	-76/0	-760/0	-1/0	-1/0
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	–
0/3000	–	0/21	0/210	0/210	–
0/5000	–	0/35	0/350	0/350	–
0/9999	–	0/70	0/700	0/700	–

TO ORDER THIS TYPE D1005PS GAUGE:

Select: _____ 25 D1005PS 02L 100#
 1. Dial Size: 2½" _____
 2. Case Type Number: D1005PS _____
 3. Wetted Parts: Stainless Steel _____
 4. Connection: ¼ NPT lower _____
 5. Range: 0/100 psi _____