



Applications and features

- Apply high accuracy MEMS sensor and digital technologies, can measure positive, negative or differential pressure. It can completely replace the traditional pointer mechanical gauges
- It can measure fan and blower pressures, filter resistance, air velocity, pressure drop across orifice plates, differential pressure of medical or pharmaceutical machine, etc.
- No any movable parts, no any effect on vibration.
- With ultra-thin design of 33mm, it could be flush, surface or wall mount.
- The accuracy is up to $\pm 1\%$ FS, with large LCD or LED display.
- Function keys: zero reset, units select, display update time, automatic sleep time, etc.

Specifications

Medium: Non-combustible, non-corrosive air, insensitive to moisture, dust, condensation and oil

Working Temp.: D2L: $-10\sim 50^{\circ}\text{C}$

D2PL: $-20\sim 85^{\circ}\text{C}$ (LED); $-10\sim 60^{\circ}\text{C}$ (LCD)

Medium Temp.: $0\sim 60^{\circ}\text{C}$

Temp Compensation: $0\sim 50^{\circ}\text{C}$

Working pressure: over load 10xFS, burst 15xFS

Accuracy: $\pm 1.0\%$ FS

Long term stability: $\pm 0.5\%$ FS /Year

Thermal effect: $< 0.05\%$ FS/ $^{\circ}\text{C}$ (zero), $< 0.08\%$ FS/(FS)

Battery type(D2L):

Display: 4 bits LCD, 18mm character height with units indication

Power: AA battery X4, recommend LR6alkaline

Display update time: selectable for 0.5/1/5/10s (default 1s)

Automatic sleep time: selectable for normal open (NO), or 1/5/10min (default 1 min)

Battery service life: when display update time=1s and automatic sleep time=NO, ≥ 2 year. When display time > 1 s or automatic sleep time ≥ 1 min, will be longer. It also depends on the quality of the batteries.

Power type(D2PL):

Display: 4 bits LCD with 18mm character height and unit indication, or 4 bits 0.8" red LED

Power: 15~28VDC/AC or 85~265VAC

Process Connection: 5mm ID tubing, two pairs (on left or back side)

Keys: 3 touch buttons

Materials: ABS

Protection: IP65

Weight: D2L < 300 g (including batteries), D2PL < 260 g

Approval: CE

Accessory: A-S0 is standard. Options are A-S1, A-S2 and A-S7-X. They can be used for surface, panel or flush mount and should be ordered separately. See details in Accessories.

Models

1. D2L (battery type) Models

model	D2L		Economical digital DP gauge
Range		See table	

2. D2PL (power type) Models

Model	D2PL			Economical DP gauge
Range		See table		
Display			0	LCD
			1	LED
Power			0	15~28VAC/DC
			1	85~265VAC

Measuring Range

Code	Unit & Range & Resolution for Display					
	Pa	Pa	KPa	in w.c.	mm	mbar
3	0-250	250.0	0.250	1.000	25.00	2.500
5	0-1000	1000	1.000	4.000	100.0	10.00
7	0-5000	5000	5.000	20.00	500.0	50.00
8	0-10000	10000	10.00	40.00	1000	100.0

1. 5 engineering units can be set by the key and related LCD or LED will be on

2. For zero center models, add "Z" at the end of the model. For example, D2L3Z, means $-125\sim 0\sim 125$ pa. Only ranges 3 and 5 have this selection