



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.
- Fashion and state of art housing design.
- Function keys: zero reset, units select, display update time, automatic sleep time, sound-light alarm, etc.
- Built-in buzzer and backlight, for sound-light alarm

Specifications

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

Work Environment: -10~50°C

Medium Temp.: 0~60°C

Temp. Compensation: 0~50°C

Working Pressure: overload 10xFS, burst 15xFS

Accuracy: up to $\pm 1.0\%$ FS, see accuracy table

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

Thermal effect: $< 0.05\%$ FS/°C (zero), $< 0.08\%$ FS/(FS)

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

Sound-light alarm: by buzzer and backlight (It needs more battery power)

Power: AA battery x 4, recommend LR6 alkaline

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 1min)

Battery service life: when display update time=1s and automatic sleep time=NO, ≥ 2 year. When display update time>1s or automatic sleep time ≥ 1 min, will be longer (when sound-light alarm does not actuate). It also depends on the quality of the batteries.

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

Key: 3 touch buttons

Materials: ABS

Protection: IP65

Weight: 300g (including batteries)

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

Model	D2H	High Accuracy digital DP gauge
	D2M	Executive digital DP gauge
Range	see table	

Measuring ranges & Accuracy

Code	Unit & Range & Resolution for Display						Accuracy(%FS)	
	Pa	Pa	KPa	in w.c.	mm w.c.	mbar	D2H	D2M
1	0-60	60.00	0.060	0.250	6.000	0.600	1%	3%
2	0-125	125.0	0.125	0.500	12.50	1.250	1%	2%
3	0-250	250.0	0.250	1.000	25.00	2.500	1%	1%
4	0-500	500.0	0.500	2.000	50.00	5.000	1%	1%
5	0-1000	1000	1.000	4.000	100.0	10.00	1%	1%
6	0-2500	2500	2.500	10.00	250.0	25.00		1%
7	0-5000	5000	5.000	20.00	500.0	50.00		1%
8	0-10000	10000	10.00	40.00	1000	100.0		1%
9	0-20000	20000	20.00	80.00	2000	200.0		1%

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

2. For zero center models, add "Z" at the end of the model. For example, D2M1Z, means -30-0-30pa.

Only ranges 1~6 have this selection