



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 pharmaceutical machine, biological safety cabinets, clean bench, etc.
- It could be flush, surface or wall mount.
- Accuracy is up to $\pm 1\%$ FS, with large LCD display.
- Function keys: zero reset, units select, display update time, automatic sleep time, alarm, etc.

Specifications

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

Working Temp.: D5:-10~50°C, D5P/G/T:-20~70°C

Medium Temp.: 0~60°C

Temp. Compensation: 0~50°C

Working Pressure: overload 10xFS, burst 15xFS

Display: 5 bits LCD, with engineering unit, with backlight (except D5)

Output: 0-10V / 4-20mA (3 wires)

Output load: $\leq 500\Omega$ (current), $\geq 2K\Omega$ (voltage)

Digital Output: RS485/Modbus (9600-n-8-1)

Relay Output: 2×SPST, 1A/30VDC, 0.5A/125VAC or 1x Buzzer

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

Battery type(D5):

Power: AA battery x 4, 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 1min)

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

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

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

Power type (D5P/D5G/D5T): 15~28VDC/AC

Process Connection: 5mm ID tubing, two pairs (left/back)

Keys: 3 touch buttons

Protection: IP65

Weight: 220g (battery type incl. batteries), 180g (power type)

Materials: ABS

Approval: CE

D5/D5P Models

Model	D5	Mini Digital DP Gauge (Battery type)
	D5P	Mini Digital DP Gauge (Power type)
Range	See Table	Only ranges 3,5,7,8 are available

D5G Models

Model	D5G	Mini multi-function Digital DP Gauge
Range	See Table	
Relay	1	2×SPST
	2	1×buzzer

D5T Models

Model	D5T	Mini multi-function Digital DP Transmitter
Range	See Table	
Relay	0	N/A
	1	2×SPST
	2	1×Buzzer
Output	0	0-10V/4-20mA
	1	RS485/Modbus

Measuring ranges & Accuracy

Code	Unit & Range & Resolution for Display						Accuracy(%FS)			
	Pa	Pa	KPa	in w.c.	mm w.c.	mbar	D5	D5P	D5G	D5T
1	0-60	60.00	0.060	0.250	6.000	0.600			3%	
2	0-125	125.0	0.125	0.500	12.50	1.250			2%	2%
3	0-250	250.0	0.250	1.000	25.00	2.500	1%	1%	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%	1%	1%
6	0-2500	2500	2.500	10.00	250.0	25.00			1%	1%
7	0-5000	5000	5.000	20.00	500.0	50.00	1%	1%	1%	1%
8	0-10000	10000	10.00	40.00	1000	100.0	1%	1%	1%	1%
9	0-20000	20000	20.00	80.00	2000	200.0			1%	1%

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

2. For D5 and D5P, only ranges 3,5,7,8 are available.

3. For zero center models, add "Z" at the end of the model. For example, D5T3**Z, means -125-0-125pa.

Only ranges 1~6 have this selection.