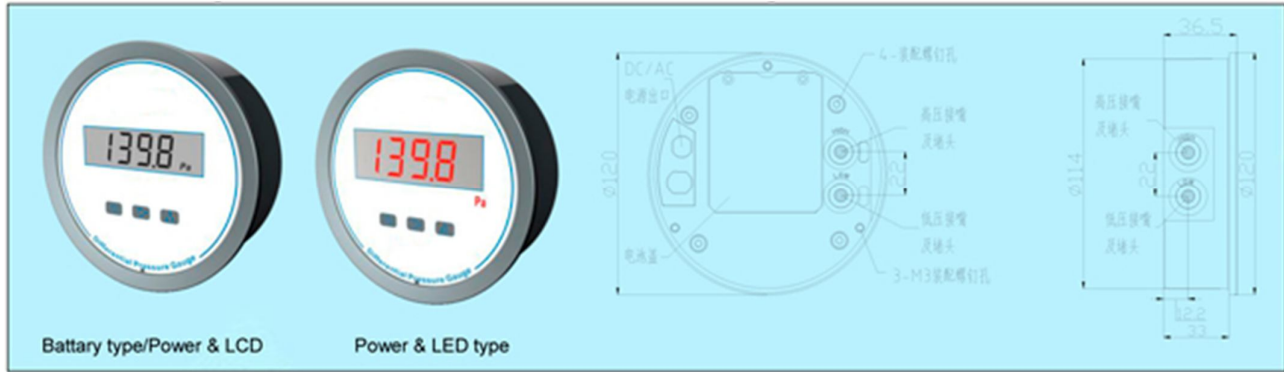


RSA-D4B/ RSA-D4P Digital Differential Pressure Gauge



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 gauge
- It can measure system pressure of fan, blower, filter, furnace draft and orifice plate and can apply to various clean room, biological safety cabinet, clean bench, ducts collection, 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 wallmount.
- Fashion and state of art housing design, with large LCD or LED display
- 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(D2P)

Specifications

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

Work Environment: Battery type -10~50°C
Power type -20~70°C(LED), -10~60°C (LCD)

Medium Temp.: 0~60°C

Temp. Compensation: 0~50°C

Working Pressure: overload 10xFS, burst 15xFS

Accuracy: $\pm 1.0\%FS(\pm 2.0\%FS@25Pa \text{ range})$

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

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

Power type (D2P):

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

Power: 16~28VDC/AC or 85~265VAC

Battery type (D2):

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

Power: AA battery $\times 4$, 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 1 min)

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.

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

Key: 3 touch buttons

Materials: ABS

Protection: IP65

Weight: 300g (battery type, including batteries), 260g (power type)

Approval: CE

Accessory: A-S0 is standard including 2m/5mm ID tube, 3 pairs of screws and brackets. 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	RSA-D4B			Digital DP gauge(battery)
	RSA-D4P			Digital DP gauge(power)
Range		X		Range selection
Display (D2P)		0		LCD(with backlight)
		1		LED
Power (D2P)			0	16~28VAC/DC
			1	85~265VAC

Battery type(D2) has no display and power options, and its LCD has no backlight

Measuring Ranges

Code	UNIT & Range & Display Resolution					
	Pa	Pa	kPa	in w.c.	mm w.c.	mbar
0	0-25	25.00	0.025	0.100	2.500	0.250
1	0-60	60.00	0.060	0.250	6.000	0.600
2	0-125	125.0	0.125	0.500	12.00	1.250
3	0-250	250.0	0.250	1.000	25.00	2.500
4	0-500	500.0	0.500	2.000	50.00	5.000
5	0-1000	1000	1.000	4.000	100.0	10.00
6	0-2500	2500	2.500	10.00	250.0	25.00
7	0-5000	5000	5.000	20.00	500.0	50.00
8	0-10000	10000	10.000	40.00	1000.0	100.00

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

2. For D2 range, only 3, 5, 7 and 8 available.

3. For zero center models, add " Z " at the end of the model. For example, D2P1Z, means -30-0-30pa. Only ranges 1~6 have this selection.