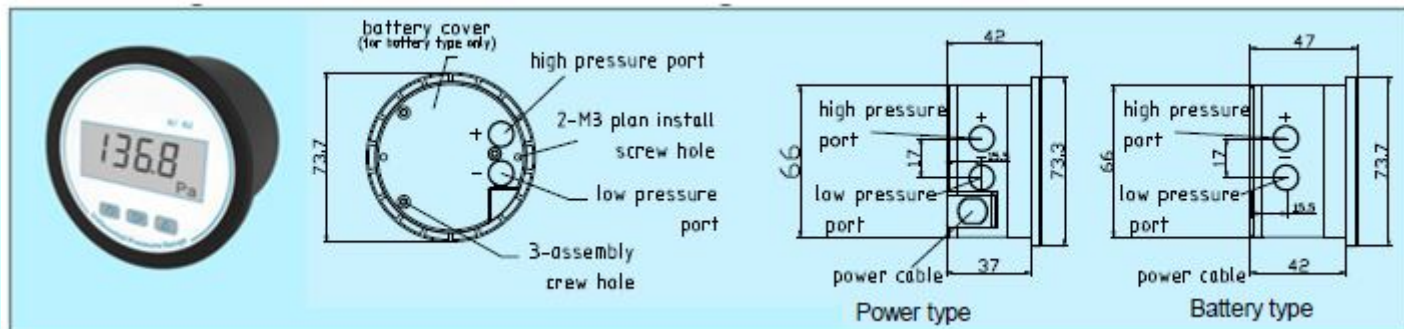


RSA-D10B Mini Digital Differential Pressure Gauge/Controller/Transmitter



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, filter, furnace draft and orifice plate and can apply to various biological safety cabinet, clean bench, medical or pharmaceutical machine, etc.
- The mini size is very good for small equipment application
- 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, RSA-D10P/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 & 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: 2xSPST, 3A/30VDC, 3A/250VAC or 1xBuzzer

Accuracy: up to $\pm 1.0\%$ FS ($\pm 2.0\%$ FS@25Pa range)

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

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

Battery type (RSA-D10B):

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 time>1s or automatic sleep time ≥ 1 min, will be longer. It also depends on the quality of the batteries.

Power type (RSA-D10P/ RSA-D10G/RSA-D10T): 16~28VDC/AC

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

Keys: 3 touch buttons

Protection: IP54

Weight: 275g (battery type incl. batteries), 235g (power type)

Materials: ABS

Approval: CE

Accessory: a set of brackets and screws, for surface or panel mount. Flush mount should use glue or other accessory.

RSA-D10B/ RSA-D10P Models

Model	RSA-D10B		Mini Digital DP Gauge (Battery type)
	RSA-D10P		Mini Digital DP Gauge (Power type)
Range		X	Range selection, only 3,5,7,8 are available

RSA-D10G Models

Model	RSA-D10G		Mini multi-function Digital DP Gauge
Range		X	Range selection
Relay		1	2xSPST
		2	1xbuzzer

RSA-D10T Models

Model	RSA-D10T		Mini multi-function Digital DP Transmitter
Range		X	Range selection
Relay		0	N/A
		1	2xSPST
		2	1xBuzzer
Output		0	0-10V&4-20mA
		1	RS485/Modbus

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	12.50	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	10.00	40.00	1000	100.0

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

2. For RSA-D10B and RSA-D10P, only ranges 3, 5, 7, 8 are available.

3. For zero center models, add "Z" at the end of the model. For example, RSA-D10T3**Z, means -125-0-125pa. Only ranges 1~6 have this selection.